



FLAT STOCK AND DRILL ROD



PRECISION FLAT STOCK AND DRILL ROD



Cut costs and save time - make your own parts like these from Flat Stock

PRECISION GROUND FLAT STOCK AND DRILL ROD STANDARD AND OVERSIZE

Starrett Precision Ground Flat Stock and Drill Rod can save time in your shop ... no more time hunting lost stock ... no more slow, costly grinding to size. Just lay it out and saw it out and save valuable machinery, downtime and man hours.

- Machine parts
- Shims
- Flat gages
- Fixtures
- Stamps
- Punches
- Parallels
- Templates
- Cutters
- Dies
- Jigs
- Buttons
- Test gages
- Test tools

Six types of material in a complete range of sizes is available to meet your specific needs:

495 and 496 are (AISI O1) oil hardening tool steels. These steels are dimensionally stable and can be used for all intricate work, including work with thin sections, with a minimum danger of cracking.

497 and 499 are (AISI A2) 5% chromium air-hardening steel. These steels have high wear and abrasion resistance.

498 Low carbon steel is used where deep hardening is not necessary, although it can be carburized or case hardened.

344 is (AISI A6) a medium alloyed air hardening tool steel that provides an excellent balance of machinability, toughness and wear resistance.

W1 Carbon (Available only in Drill Rod) is (AISI/SAE W1) a versatile and less expensive carbon steel with excellent machinability, good wear resistance and toughness.

401 and 402 are (AISI D2) high chromium steel. These steels are for the highest wear resistance applications.



PACKAGING

Starrett Precision Ground Flat Stock is individually wrapped in brown paper and clearly marked with size dimensions, analysis and correct hardening and tempering information. Drill rods are bundled together and tagged with a description that includes the size and EDP number. Color coding by grade on the ends of each piece allows for easy identification.





Cut costs and save time - make your own parts like these from Drill Rod

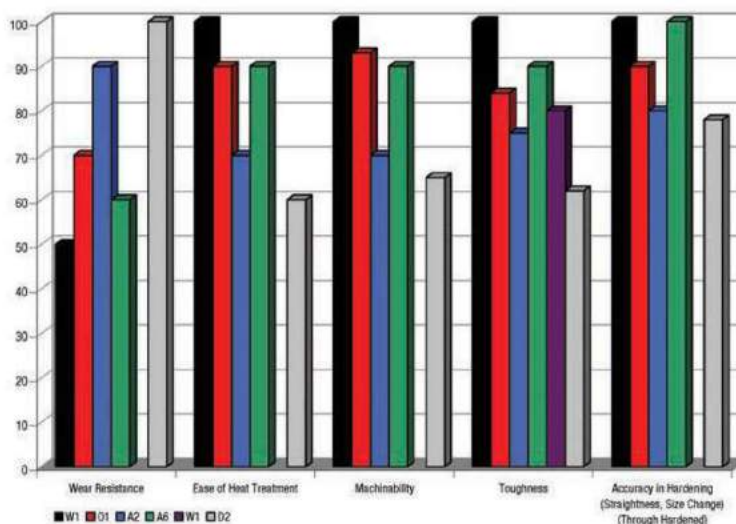
Flat Stock Tolerances

| | |
|-----------------------------|---|
| Standard: | Thickness $\pm .001$ " Widths Up through 8", $+.000/.005$ " 9" and Over, $+.000/.015$ " Squares, $\pm .001$ " |
| Oversize: | Thickness, $+.010/.015$ " Width, $+.010/.015$ " Squares, $+.010/.015$ " |
| Length: | 18", $+1/4$ " Saw Cut Oversize to Allow for Finish Cutting 24", $+1/2$ " 36", $+5/8$ " |
| Squareness Edge All: | .003" Per Inch |
| Finish: | 35 Microinch or Finer |

Drill Rod Tolerances

| Size Range | Diameter Tolerance | Length Tolerance |
|----------------------|--------------------|------------------|
| .124" round and less | $\pm .0003$ " | $+1/8 - 0$ |
| .125" to .499" | $\pm .0005$ " | |
| .500" to 2" | $\pm .0010$ " | |

COMPARATIVE FEATURE PROPERTIES



Check out our website for interactive features at starrett.com



PRECISION GROUND FLAT STOCK

496 OIL HARDENING PRECISION GROUND FLAT STOCK STANDARD

495 OIL HARDENING PRECISION GROUND FLAT STOCK OVERSIZE

- Stock is dimensionally stable – use it for the most intricate work
- Deep hardening characteristics and fine grain structure
- Machines freely – fully spheroidized, annealed
- Full length identification – eliminates confusion with other steels
- Starrett uses its own ground flat stock and die stock for many of its fine precision tool parts

SPECIFICATIONS

NOMINAL ANALYSIS (AISI O1)

| | |
|-----------------|------|
| Carbon | .90 |
| Chromium | .50 |
| Manganese | 1.20 |
| Tungsten | .50 |
| Vanadium | .20 |

| Size | Temperature | Quench | Rockwell C |
|-----------|---------------|--------|------------|
| All Sizes | 1450°-1500° F | Oil | 63-65 |



Furnished in 18" and 36" lengths, ground straight and parallel.

HARDENING

It is recommended that stock be heated uniformly to 1450°-1500° F and quenched in oil. Temperature of the quenching oil should be 120°-140° F for best results. Do not quench in water because this is an oil hardening steel.

TEMPERING

For maximum toughness, a tempering time of one hour at temperature is recommended. Use chart for selecting desired Rockwell C hardness and corresponding tempering temperature. The following may also be used as a guide depending on type of work.

CUTTING TOOLS

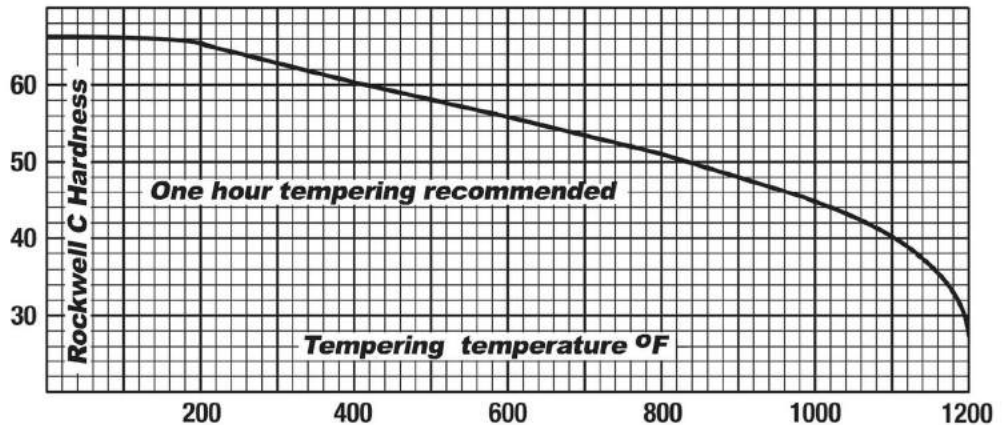
- 300°-350° F (Light Straw)

SOLID PUNCHES AND DIES

- 400°-450° F (Straw)

SPRING TEMPER

- 750°-800° F (Blue)



NOTE: Lengths, widths and thicknesses other than listed can also be quoted by request



516

Starrett®



PRECISION GROUND FLAT STOCK

496 OIL HARDENING PRECISION GROUND FLAT STOCK STANDARD TOLERANCE

| 496 Oil Hardening Precision Ground Flat Stock | | | |
|---|--------|------------|------------|
| Thickness | Width | 18" Length | 36" Length |
| 1/64" | 1/2" | 53924 | 59139 |
| | 3/4" | 53925 | |
| | 1" | 53926 | |
| | 1-1/4" | 53927 | |
| | 1-1/2" | 53928 | |
| | 2" | 53929 | 59140 |
| | 2-1/2" | 53930 | |
| | 3" | 53931 | |
| 1/32" | 4" | 53932 | 59141 |
| | 1/2" | 53933 | 58895 |
| | 3/4" | 53934 | 59143 |
| | 1" | 53935 | 59144 |
| | 1-1/4" | 53936 | |
| | 1-1/2" | 53937 | 59145 |
| | 2" | 53938 | 58901 |
| | 2-1/2" | 53939 | |
| 3/64" | 3" | 53940 | 59147 |
| | 4" | 53941 | 59148 |
| | 6" | 53942 | |
| | 1/2" | 53943 | 59149 |
| | 3/4" | 53944 | 59150 |
| | 1" | 53945 | 58902 |
| | 1-1/4" | 53946 | 59171 |
| | 1-1/2" | 53947 | 57685 |
| 1/16" | 2" | 53948 | 59152 |
| | 2-1/2" | 53949 | |
| | 3" | 53950 | |
| | 3-1/2" | 53951 | |
| | 4" | 53952 | 59153 |
| | 6" | 53953 | |
| | 1/4" | 57226 | 58891 |
| | 3/8" | 57227 | |
| 1/8" | 1/2" | 53954 | 54257 |
| | 3/4" | 53955 | 54258 |
| | 1" | 53956 | 54259 |
| | 1-1/4" | 53957 | 54260 |
| | 1-1/2" | 53958 | 54261 |
| | 1-3/4" | 53959 | 54262 |
| | 2" | 53960 | 54263 |
| | 2-1/2" | 53961 | 54264 |
| | 3" | 53962 | 54265 |
| | 3-1/2" | 53963 | 54266 |
| 9/64" | 4" | 53964 | 54267 |
| | 5" | 53965 | 54268 |
| | 6" | 53966 | 54269 |
| | 8" | 53967 | 57236 |
| | 10" | 53968 | 57237 |
| | 1/2" | 53969 | 54270 |
| | 3/4" | 53970 | 58905 |
| | 1" | 53971 | 58890 |
| | 1-1/2" | 53972 | |
| | 2" | 53973 | |
| 5/64" | 2-1/2" | 53974 | |
| | 3" | 53975 | |
| | 4" | 53976 | |
| | 6" | 53977 | |

| 496 Oil Hardening Precision Ground Flat Stock | | | | |
|---|--------|------------|------------|--|
| Thickness | Width | 18" Length | 36" Length | |
| 3/32" | 1/4" | | 58899 | |
| | 3/8" | 58903 | | |
| | 1/2" | 53978 | 54279 | |
| | 3/4" | 53979 | 54280 | |
| | 1" | 53980 | 54281 | |
| | 1-1/4" | 53981 | 54282 | |
| | 1-1/2" | 53982 | 54283 | |
| | 2" | 53983 | 54284 | |
| | 2-1/2" | 53984 | 54285 | |
| | 3" | 53985 | 54286 | |
| | 4" | 53986 | 54287 | |
| | 5" | 53987 | 54288 | |
| | 6" | 53988 | 54289 | |
| | 8" | 53989 | 57682 | |
| | 7/64" | 1/2" | 53990 | |
| | | 3/4" | 53991 | |
| 1" | | 53992 | | |
| 1-1/4" | | 53993 | | |
| 1-1/2" | | 53994 | | |
| 2" | | 53995 | | |
| 3" | | 53996 | | |
| 4" | | 53997 | | |
| 1/8" | 1/8" | 53998 | 59154 | |
| | 1/4" | 57228 | 58894 | |
| | 5/16" | 59127 | 58897 | |
| | 3/8" | 57229 | 58892 | |
| | 1/2" | 53999 | 54298 | |
| | 5/8" | 54000 | 54299 | |
| | 3/4" | 54001 | 54300 | |
| | 1" | 54002 | 54301 | |
| | 1-1/4" | 54003 | 54302 | |
| | 1-1/2" | 54004 | 54303 | |
| | 1-3/4" | 54005 | 54304 | |
| | 2" | 54006 | 54305 | |
| | 2-1/2" | 54007 | 54306 | |
| | 3" | 54008 | 54307 | |
| 9/64" | 3-1/2" | 54009 | 54308 | |
| | 4" | 54010 | 54309 | |
| | 4-1/2" | 54011 | 54310 | |
| | 5" | 54012 | 54311 | |
| | 6" | 54013 | 54312 | |
| | 7" | 54014 | 54313 | |
| | 8" | 54015 | 54314 | |
| | 10" | 54016 | 54315 | |
| | 12" | 54017 | 54316 | |
| | 14" | 54018 | 57238 | |
| | 9/64" | 54019 | | |
| | 1/2" | 54020 | | |
| | 3/4" | 54021 | | |
| | 1" | 54022 | | |
| 1-1/2" | 54023 | | | |
| 2" | 54024 | | | |
| 3" | 54025 | | | |
| 4" | 54026 | | | |
| 5/32" | 5/32" | 54027 | | |
| | 1/2" | 54028 | 54324 | |
| | 3/4" | 54029 | 54325 | |
| | 1" | 54030 | 54326 | |
| | 1-1/4" | 54031 | 54327 | |
| | 1-1/2" | 54032 | 54328 | |

| 496 Oil Hardening Precision Ground Flat Stock | | | |
|---|--------|------------|------------|
| Thickness | Width | 18" Length | 36" Length |
| 5/32" | 1-3/4" | 54033 | 54329 |
| | 2" | 54034 | 54330 |
| | 2-1/2" | 54035 | 54331 |
| | 3" | 54036 | 54332 |
| | 3-1/2" | 54037 | 54333 |
| | 4" | 54038 | 54334 |
| | 5" | 54039 | 54335 |
| | 6" | 54040 | 54336 |
| 3/16" | 8" | 54041 | 54337 |
| | 3/16" | 54042 | 59157 |
| | 1/4" | 57230 | |
| | 3/8" | 57231 | |
| | 1/2" | 54043 | 54338 |
| | 3/4" | 54044 | 54339 |
| | 1" | 54045 | 54340 |
| | 1-1/4" | 54046 | 54341 |
| 7/32" | 1-1/2" | 54047 | 54342 |
| | 1-3/4" | 54048 | 54343 |
| | 2" | 54049 | 54344 |
| | 2-1/2" | 54050 | 54345 |
| | 3" | 54051 | 54346 |
| | 3-1/2" | 54052 | 54347 |
| | 4" | 54053 | 54348 |
| | 5" | 54054 | 54349 |
| | 6" | 54055 | 54350 |
| | 8" | 54056 | 54351 |
| 1/4" | 10" | 54057 | 54352 |
| | 7/32" | 54058 | |
| | 1/2" | 54059 | 54353 |
| | 3/4" | 54060 | 54354 |
| | 1" | 54061 | 54355 |
| | 1-1/4" | 54062 | 54356 |
| | 1-1/2" | 54063 | 54357 |
| | 2" | 54064 | 54358 |
| | 3" | 54065 | 54359 |
| | 4" | 54066 | 54360 |
| 1/4" | 6" | 54067 | |
| | 1/4" | 54068 | 56517 |
| | 3/8" | 54069 | 58900 |
| | 1/2" | 54070 | 54362 |
| | 5/8" | 58904 | 58893 |
| | 3/4" | 54071 | 54363 |
| | 1" | 54072 | 54364 |
| | 1-1/4" | 54073 | 54365 |
| | 1-1/2" | 54074 | 54366 |
| | 1-3/4" | 54075 | 54367 |
| | 2" | 54076 | 54368 |
| | 2-1/2" | 54077 | 54369 |
| | 3" | 54078 | 54370 |
| | 3-1/2" | 54079 | 54371 |
| 4" | 54080 | 54372 | |
| 4-1/2" | 54081 | 54373 | |
| 5" | 54082 | 54374 | |
| 5-1/2" | 54083 | 54375 | |
| 6" | 54084 | 54376 | |
| 7" | 54085 | 54377 | |
| 8" | 54086 | 54378 | |
| 10" | 54087 | 54379 | |
| 12" | 54088 | 54380 | |
| 14" | 54089 | 57239 | |

Sizes other than listed priced on application



Check out our website for interactive features at starrett.com



PRECISION GROUND FLAT STOCK

496 OIL HARDENING PRECISION GROUND FLAT STOCK STANDARD TOLERANCE

| 496 Oil Hardening Precision Ground Flat Stock | | | |
|---|--------|------------|------------|
| Thickness | Width | 18" Length | 36" Length |
| 9/32" | 9/32" | 54090 | |
| | 1/2" | 54091 | |
| | 3/4" | 54092 | |
| | 1" | 54093 | |
| | 1-1/4" | 54094 | |
| | 1-1/2" | 54095 | |
| | 2" | 54096 | |
| | 2-1/2" | 54097 | |
| | 3" | 54098 | |
| | 4" | 54099 | |
| 6" | 54100 | 54390 | |
| 5/16" | 5/16" | 54101 | 54391 |
| | 3/8" | 57232 | |
| | 1/2" | 54102 | 54392 |
| | 5/8" | | 58896 |
| | 3/4" | 54103 | 54393 |
| | 1" | 54104 | 54394 |
| | 1-1/4" | 54105 | 54395 |
| | 1-1/2" | 54106 | 54396 |
| | 1-3/4" | 57233 | 57240 |
| | 2" | 54107 | 54397 |
| 2-1/2" | 54108 | 54398 | |
| 3" | 54109 | 54399 | |
| 3-1/2" | 54110 | 54400 | |
| 4" | 54111 | 54401 | |
| 4-1/2" | 54112 | 54402 | |
| 5" | 54113 | 54403 | |
| 6" | 54114 | 54404 | |
| 8" | 54115 | 54405 | |
| 3/8" | 3/8" | 54116 | 54406 |
| | 1/2" | 54117 | 54407 |
| | 5/8" | | 58898 |
| | 3/4" | 54118 | 54408 |
| | 1" | 54119 | 54409 |
| | 1-1/4" | 54120 | 54410 |
| | 1-1/2" | 54121 | 54411 |
| | 1-3/4" | 54122 | 54412 |
| | 2" | 54123 | 54413 |
| | 2-1/2" | 54124 | 54414 |
| 3" | 54125 | 54415 | |
| 3-1/2" | 54126 | 54416 | |
| 4" | 54127 | 54417 | |
| 4-1/2" | 54128 | 54418 | |
| 5" | 54129 | 54419 | |
| 5-1/2" | 54130 | 54420 | |
| 6" | 54131 | 54421 | |
| 7" | 54132 | 54422 | |
| 8" | 54133 | 54423 | |
| 10" | 54134 | 54424 | |
| 12" | 54135 | 54425 | |
| 7/16" | 7/16" | 54136 | 54426 |
| | 1/2" | 54137 | 54427 |
| | 3/4" | 54138 | 54428 |
| | 1" | 54139 | 54429 |
| | 1-1/4" | 54140 | 54430 |
| | 1-1/2" | 54141 | 54431 |
| | 2" | 54142 | 54432 |
| | 2-1/2" | 54143 | 54433 |
| | 3" | 54144 | 54434 |
| | 4" | 54145 | 54435 |
| 6" | 54146 | 54436 | |

| 496 Oil Hardening Precision Ground Flat Stock | | | |
|---|--------|------------|------------|
| Thickness | Width | 18" Length | 36" Length |
| 1/2" | 1/2" | 54147 | 54437 |
| | 5/8" | 54148 | 54438 |
| | 3/4" | 54149 | 54439 |
| | 1" | 54150 | 54440 |
| | 1-1/4" | 54151 | 54441 |
| | 1-1/2" | 54152 | 54442 |
| | 1-3/4" | 57234 | 57241 |
| | 2" | 54153 | 54443 |
| | 2-1/2" | 54154 | 54444 |
| | 3" | 54155 | 54445 |
| | 3-1/2" | 54156 | 54446 |
| | 4" | 54157 | 54447 |
| | 4-1/2" | 54158 | 54448 |
| | 5" | 54159 | 54449 |
| 6" | 54160 | 54450 | |
| 7" | 54161 | 54451 | |
| 8" | 54162 | 54452 | |
| 10" | 54163 | 54453 | |
| 12" | 54164 | 59159 | |
| 14" | 54165 | | |
| 9/16" | 9/16" | 54166 | 54455 |
| | 3/4" | 54167 | 54456 |
| | 1" | 54168 | 54457 |
| | 1-1/4" | 54169 | 54458 |
| | 1-1/2" | 54170 | 54459 |
| 2" | 54171 | 54460 | |
| 5/8" | 5/8" | 54172 | 54461 |
| | 3/4" | 54173 | 54462 |
| | 1" | 54174 | 54463 |
| | 1-1/4" | 54175 | 54464 |
| | 1-1/2" | 54176 | 54465 |
| | 2" | 54177 | 54466 |
| | 2-1/2" | 54178 | 54467 |
| | 3" | 54179 | 54468 |
| | 3-1/2" | 54180 | 54469 |
| | 4" | 54181 | 54470 |
| 5" | 54182 | 54471 | |
| 6" | 54183 | 54472 | |
| 8" | 54185 | 54474 | |
| 10" | 54186 | 54475 | |
| 12" | 57235 | 57242 | |
| 3/4" | 3/4" | 54187 | 54476 |
| | 1" | 54188 | 54477 |
| | 1-1/4" | 54189 | 54478 |
| | 1-1/2" | 54190 | 54479 |
| | 2" | 54191 | 54480 |
| | 2-1/2" | 54192 | 54481 |
| | 3" | 54193 | 54482 |
| | 3-1/2" | 54194 | 54483 |
| | 4" | 54195 | 54484 |
| | 4-1/2" | 54196 | 54485 |
| 5" | 54197 | 54486 | |
| 6" | 54198 | 54487 | |
| 8" | 54199 | 54488 | |
| 10" | 54200 | 54489 | |
| 12" | 54201 | 54490 | |

| 496 Oil Hardening Precision Ground Flat Stock | | | |
|---|--------|------------|------------|
| Thickness | Width | 18" Length | 36" Length |
| 7/8" | 7/8" | 54202 | 54491 |
| | 1" | 54203 | 54492 |
| | 1-1/4" | 54204 | 54493 |
| | 1-1/2" | 54205 | 54494 |
| | 2" | 54206 | 54495 |
| | 2-1/2" | 54207 | 54496 |
| | 3" | 54208 | 54497 |
| | 4" | 54209 | 54498 |
| | 6" | 54210 | 54499 |
| | 1" | 1" | 54211 |
| 1-1/4" | | 54212 | 54501 |
| 1-1/2" | | 54213 | 54502 |
| 2" | | 54214 | 54503 |
| 2-1/2" | | 54215 | 54504 |
| 3" | | 54216 | 54505 |
| 3-1/2" | | 54217 | 54506 |
| 4" | | 54218 | 54507 |
| 4-1/2" | | 54219 | 54508 |
| 5" | | 54220 | 54509 |
| 6" | 54221 | 54510 | |
| 8" | 54222 | 54511 | |
| 10" | 54223 | 54512 | |
| 12" | 54224 | 54513 | |
| 1-1/8" | 1-1/2" | 54225 | 54514 |
| | 2" | 54226 | 54515 |
| | 3" | 54227 | 54516 |
| | 4" | 54228 | 54517 |
| 1-1/4" | 6" | 54229 | 54518 |
| | 1-1/4" | 54230 | 54519 |
| | 1-1/2" | 54231 | 54520 |
| | 2" | 54232 | 54521 |
| | 2-1/2" | 54233 | 54522 |
| | 3" | 54234 | 54523 |
| | 4" | 54235 | 54524 |
| | 5" | 54236 | 54525 |
| | 6" | 54237 | 54526 |
| | 8" | 54238 | 54527 |
| 10" | 54239 | 54528 | |
| 1-1/2" | 1-1/2" | 54240 | 54529 |
| | 2" | 54241 | 54530 |
| | 2-1/2" | 54242 | 54531 |
| | 3" | 54243 | 54532 |
| | 3-1/2" | 54244 | 54533 |
| | 4" | 54245 | 54534 |
| | 5" | 54246 | 54535 |
| | 6" | 54247 | 54536 |
| | 8" | 54248 | 54537 |
| | 10" | 54249 | 54538 |
| 12" | 59189 | | |
| 2" | 2" | 54250 | 54539 |
| | 3" | 54251 | 54540 |
| | 4" | 54252 | 54541 |
| | 6" | 54253 | 54542 |

Sizes other than listed priced on application



PRECISION GROUND FLAT STOCK

495 OIL HARDENING PRECISION GROUND FLAT STOCK OVERSIZE TOLERANCE

| 495 Oil Hardening Ground Flat Stock | | | |
|-------------------------------------|--------|------------|------------|
| Thickness | Width | 18" Length | 36" Length |
| 3/16" | 3/16" | 56957 | 57677 |
| | 1/2" | 56958 | 56813 |
| | 3/4" | 56959 | 56814 |
| | 1" | 56960 | 56815 |
| | 1-1/4" | 56961 | 56816 |
| | 1-1/2" | 56962 | 56817 |
| | 2" | 56963 | 56818 |
| | 2-1/2" | 56964 | 56819 |
| | 3" | 56965 | 56820 |
| | 4" | 56966 | 56821 |
| | 5" | 56967 | |
| 1/4" | 1/4" | 56971 | 57678 |
| | 1/2" | 56972 | 56823 |
| | 3/4" | 56973 | 56824 |
| | 1" | 56974 | 56825 |
| | 1-1/4" | 56975 | 56826 |
| | 1-1/2" | 56976 | 56827 |
| | 1-3/4" | 56977 | |
| | 2" | 56978 | 56828 |
| | 2-1/2" | 56979 | 56829 |
| | 3" | 56980 | 56830 |
| | 3-1/2" | 56981 | 56831 |
| 5/16" | 5/16" | 56987 | |
| | 1/2" | 56988 | 56835 |
| | 3/4" | 56989 | 56836 |
| | 1" | 56990 | 56837 |
| | 1-1/4" | 56991 | 56838 |
| | 1-1/2" | 56992 | 56839 |
| | 2" | 56993 | 56840 |
| | 2-1/2" | 56994 | 56841 |
| | 3" | 56995 | 56842 |
| | 4" | 56996 | 56843 |
| | 5" | 56997 | 56844 |
| 6" | | 56845 | |

| 495 Oil Hardening Ground Flat Stock | | | |
|-------------------------------------|--------|------------|------------|
| Thickness | Width | 18" Length | 36" Length |
| 3/8" | 3/8" | 56998 | 57679 |
| | 1/2" | 56999 | 56846 |
| | 3/4" | 57000 | 56847 |
| | 1" | 57001 | 56848 |
| | 1-1/4" | 57002 | 56849 |
| | 1-1/2" | 57003 | 56850 |
| | 2" | 57004 | 56851 |
| | 2-1/2" | 57005 | 56852 |
| | 3" | 57006 | 56853 |
| | 3-1/2" | 57007 | |
| | 4" | 57008 | 56854 |
| 1/2" | 4-1/2" | 57009 | |
| | 5" | 57010 | 56855 |
| | 6" | 57011 | 56856 |
| | 8" | 57012 | 56857 |
| | 12" | 57013 | |
| | 1/2" | 57014 | 56858 |
| | 3/4" | 57015 | 56859 |
| | 1" | 57016 | 56860 |
| | 1-1/4" | 57017 | 56861 |
| | 1-1/2" | 57018 | 56862 |
| | 2" | 57019 | 56863 |
| 5/8" | 2-1/2" | 57020 | 56864 |
| | 3" | 57021 | 56865 |
| | 3-1/2" | 57022 | |
| | 4" | 57023 | 56866 |
| | 4-1/2" | 57024 | |
| | 5" | 57025 | 56867 |
| | 6" | 57026 | 56868 |
| | 8" | 57027 | 56869 |
| | 10" | 57028 | 56870 |
| | 12" | 57029 | |
| | 1" | 5/8" | 57030 |
| 3/4" | | 57031 | 57680 |
| 1" | | 57032 | 56872 |
| 1-1/4" | | 57033 | 56873 |
| 1-1/2" | | 57034 | 56874 |
| 2" | | 57035 | 56875 |
| 2-1/2" | | 57036 | 56876 |
| 3" | | 57037 | 56877 |
| 3-1/2" | | 57038 | |
| 4" | | 57039 | 56878 |
| 5" | | 57040 | 56879 |
| 6" | 57041 | 56880 | |

| 495 Oil Hardening Ground Flat Stock | | | |
|-------------------------------------|--------|------------|------------|
| Thickness | Width | 18" Length | 36" Length |
| 3/4" | 3/4" | 57042 | 56881 |
| | 1" | 57043 | 56882 |
| | 1-1/4" | 57044 | |
| | 1-1/2" | 57045 | 56883 |
| | 2" | 57046 | 56884 |
| | 2-1/2" | 57047 | 56885 |
| | 3" | 57048 | 56886 |
| | 3-1/2" | 57049 | |
| | 4" | 57050 | 56887 |
| | 5" | 57051 | |
| | 6" | 57052 | 56888 |
| 1" | 8" | 57053 | |
| | 1" | 57054 | 56889 |
| | 1-1/4" | 57055 | 57681 |
| | 1-1/2" | 57056 | 56890 |
| | 2" | 57057 | 56891 |
| | 2-1/2" | 57058 | 56892 |
| | 3" | 57059 | 56893 |
| | 3-1/2" | 57060 | |
| | 4" | 57061 | 56894 |
| | 5" | 57062 | |
| | 6" | 57063 | 56895 |

FLAT STOCK AND DRILL ROD

Sizes other than listed priced on application



Check out our website for interactive features at starrett.com



PRECISION GROUND FLAT STOCK

**497 AIR HARDENING PRECISION
GROUND FLAT STOCK**
STANDARD

**499 AIR HARDENING PRECISION
GROUND FLAT STOCK**
OVERSIZE

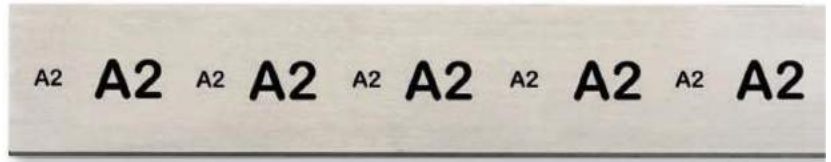
DIMENSIONALLY STABLE

- The 5% chromium content makes this steel especially desirable for punches and dies to be used in long production runs since it gives the tools far longer life. Up to 50% more pieces per sharpening can be produced than with oil hardening steel.
- High wear resistance is also ideal for punches and dies to stamp silicon, stainless steels, monel metal and other types of abrasive material
- Maintains close dimensional accuracy throughout the heat treating process. The wide 75° hardening range make this virtually foolproof.
- Full-length identification eliminates confusion with other steels
- Starrett uses its own ground flat stock for many of its precision tool parts

| Size | Temperature | Cool | Rockwell C |
|-----------|---------------|-----------|------------|
| All Sizes | 1700°-1775° F | Still Air | 63.5-65 |

NOMINAL ANALYSIS (AISI A2)

| | |
|------------------|------|
| Carbon | 1.00 |
| Chromium | 5.25 |
| Manganese | .60 |
| Molybdenum | 1.00 |
| Vanadium | .25 |



SPECIFICATIONS

Furnished in 18" and 36" lengths, ground straight and parallel.

HARDENING

497 and 499 Air Hardening Ground Flat Stock have a wide hardening range of 1700°F to 1775°F, with 1750°F recommended for most work. For heavier sections use the high side of the range. Heat uniformly throughout but do not soak longer than necessary. Cool in still air. No pre-heat is required if pack or atmosphere controlled furnace methods are used, but with the open furnace method a pre-heat of 1450°F is recommended.

TEMPERING

A tempering time of two hours at temperature is recommended. Use chart for selecting the desired Rockwell C hardness and corresponding tempering temperature. For maximum toughness, double temper for two hours at each temperature recommended. The following may also be used as a guide, depending on the type of work.

LIGHT BLANKING PUNCHES AND DIES

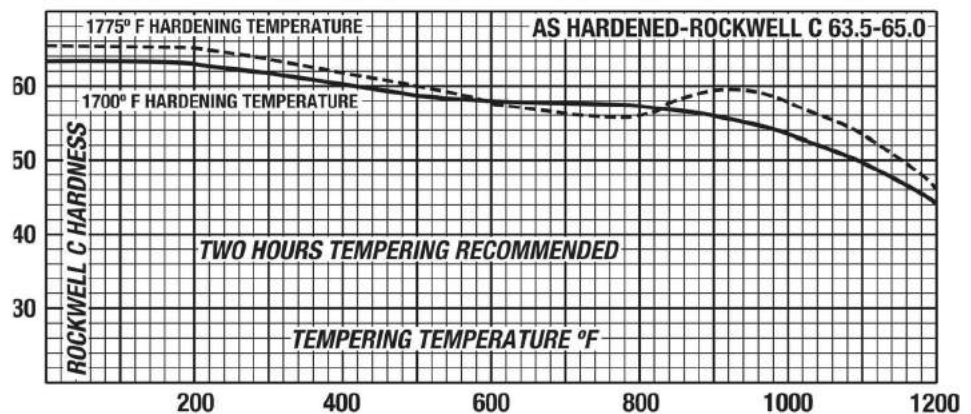
400°-425° F

HEAVY BLANKING PUNCHES AND DIES

700° F

ANNEALING

1525°-1575° F, Furnace cool at no more than 50° per hour to 800° for maximum softness.



499, 1-1/4" and over is Blanchard ground with saw cut edges



520

Starrett®



PRECISION GROUND FLAT STOCK

497 AIR HARDENING PRECISION GROUND FLAT STOCK STANDARD TOLERANCE

| 497 Air Hardening Precision Ground Flat Stock | | | |
|---|--------|------------|------------|
| Thickness | Width | 18" Length | 36" Length |
| 1/16" | 1/2" | 57489 | 57301 |
| | 3/4" | 57490 | 57302 |
| | 1" | 57491 | 57303 |
| | 1-1/4" | 57492 | 57304 |
| | 1-1/2" | 57493 | 57305 |
| | 2" | 57494 | 57306 |
| | 2-1/2" | 57495 | 57307 |
| | 3" | 57496 | 57308 |
| 3/32" | 4" | 57497 | 57309 |
| | 1/2" | 57498 | 57310 |
| | 3/4" | 57499 | 57311 |
| | 1" | 57500 | 57312 |
| | 1-1/4" | 57501 | 57313 |
| | 1-1/2" | 57502 | 57314 |
| | 2" | 57503 | 57315 |
| | 2-1/2" | 57504 | 57316 |
| 1/8" | 3" | 57505 | 57317 |
| | 4" | 57506 | 57318 |
| | 1/2" | 57243 | 57245 |
| | 5/8" | 57507 | 57319 |
| | 3/4" | 57244 | 57246 |
| | 1" | 54589 | 54546 |
| | 1-1/4" | 54590 | 54547 |
| | 1-1/2" | 54591 | 54548 |
| | 1-3/4" | 57508 | 57320 |
| | 2" | 54592 | 54549 |
| | 2-1/2" | 54593 | 54550 |
| | 3" | 54594 | 54551 |
| 5/32" | 3-1/2" | 54595 | 54552 |
| | 4" | 54596 | 54553 |
| | 5" | 54598 | 54555 |
| | 6" | 54599 | 54556 |
| | 7" | 57509 | 57321 |
| | 8" | 57510 | 57322 |
| | 10" | 57511 | 57323 |
| | 12" | 57512 | 57324 |
| | 1/2" | 57513 | 57325 |
| | 3/4" | 57514 | 57326 |
| | 1" | 54600 | 54557 |
| | 1-1/4" | 54601 | 54558 |
| 1-1/2" | 54602 | 54559 | |
| 1-3/4" | 57515 | 57327 | |
| 2" | 54603 | 54560 | |
| 2-1/2" | 54604 | 54561 | |
| 3" | 54605 | 54562 | |
| 3-1/2" | 54606 | 54563 | |
| 4" | 54607 | 54564 | |
| 5" | 54608 | 54565 | |
| 6" | 54609 | 54566 | |
| 8" | 57516 | 57328 | |

| 497 Air Hardening Precision Ground Flat Stock | | | |
|---|--------|------------|------------|
| Thickness | Width | 18" Length | 36" Length |
| 3/16" | 3/16" | 57517 | 57329 |
| | 1/2" | 57518 | 57330 |
| | 3/4" | 57519 | 57331 |
| | 1" | 54610 | 54567 |
| | 1-1/4" | 54611 | 54568 |
| | 1-1/2" | 54612 | 54569 |
| | 1-3/4" | 57520 | 57332 |
| | 2" | 54613 | 54570 |
| | 2-1/2" | 54614 | 54571 |
| | 3" | 54615 | 54572 |
| | 3-1/2" | 54616 | 54573 |
| | 4" | 54617 | 54574 |
| 1/4" | 5" | 54618 | 54575 |
| | 6" | 54619 | 54576 |
| | 7" | 57521 | 57333 |
| | 8" | 57522 | 57334 |
| | 12" | 59129 | 59161 |
| | 1/4" | 57523 | 57335 |
| | 1/2" | 57524 | 57336 |
| | 3/4" | 57525 | 57337 |
| | 1" | 54620 | 54577 |
| | 1-1/4" | 54621 | 54578 |
| | 1-1/2" | 54622 | 54579 |
| | 1-3/4" | 57526 | 57338 |
| 2" | 54623 | 54580 | |
| 2-1/2" | 54624 | 54581 | |
| 3" | 54625 | 54582 | |
| 3-1/2" | 54626 | 54583 | |
| 4" | 54627 | 54584 | |
| 5" | 54629 | 54586 | |
| 6" | 54631 | 54588 | |
| 8" | 59130 | 59162 | |
| 12" | 59131 | 59163 | |
| 5/16" | 5/16" | 57527 | 57339 |
| | 1/2" | 57528 | 57340 |
| | 3/4" | 57529 | 57341 |
| | 1" | 54717 | 54632 |
| | 1-1/4" | 54718 | 54633 |
| | 1-1/2" | 54719 | 54634 |
| | 1-3/4" | 57530 | 57342 |
| | 2" | 54720 | 54635 |
| | 2-1/2" | 54721 | 54636 |
| | 3" | 54722 | 54637 |
| | 3-1/2" | 54723 | 54638 |
| | 4" | 54724 | 54639 |
| 5" | 54726 | 54641 | |
| 6" | 54727 | 54642 | |
| 8" | 59132 | 59164 | |

| 497 Air Hardening Precision Ground Flat Stock | | | |
|---|--------|------------|------------|
| Thickness | Width | 18" Length | 36" Length |
| 3/8" | 3/8" | 57531 | 57343 |
| | 1/2" | 57532 | 57344 |
| | 3/4" | 57533 | 57345 |
| | 1" | 54728 | 54643 |
| | 1-1/4" | 54729 | 54644 |
| | 1-1/2" | 54730 | 54645 |
| | 1-3/4" | 57534 | 57346 |
| | 2" | 54731 | 54646 |
| | 2-1/2" | 54732 | 54647 |
| | 3" | 54733 | 54648 |
| | 3-1/2" | 54734 | 54649 |
| | 4" | 54735 | 54650 |
| 1/2" | 5" | 54737 | 54652 |
| | 6" | 54739 | 54654 |
| | 8" | 59133 | 59165 |
| | 12" | 59134 | 59166 |
| | 1/2" | 56495 | 56505 |
| | 5/8" | 57535 | 57347 |
| | 3/4" | 56494 | 56506 |
| | 1" | 56493 | 56507 |
| | 1-1/4" | 57536 | 57348 |
| | 1-1/2" | 57537 | 57349 |
| | 1-3/4" | 57538 | 57350 |
| | 2" | 54748 | 54663 |
| 2-1/2" | 54749 | 54664 | |
| 3" | 54750 | 54665 | |
| 3-1/2" | 54751 | 54666 | |
| 4" | 54752 | 54667 | |
| 5" | 54754 | 54669 | |
| 6" | 54755 | 54670 | |
| 8" | 54757 | 54672 | |
| 12" | 59135 | 59167 | |
| 5/8" | 5/8" | 56499 | 56508 |
| | 3/4" | 56498 | 56509 |
| | 1" | 56497 | 56510 |
| | 1-1/2" | 56496 | 56511 |
| | 2" | 54760 | 54675 |
| | 2-1/2" | 54761 | 54676 |
| | 3" | 54762 | 54677 |
| | 3-1/2" | 54763 | 54678 |
| | 4" | 54764 | 54679 |
| | 5" | 54765 | 54680 |
| | 6" | 54766 | 54681 |
| | 8" | 59136 | 59168 |

FLAT STOCK AND DRILL ROD

Sizes other than listed priced on application



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521



PRECISION GROUND FLAT STOCK

497 AIR HARDENING PRECISION GROUND FLAT STOCK STANDARD TOLERANCE

| 497 Air Hardening Precision Ground Flat Stock | | | |
|---|--------|------------|------------|
| Thickness | Width | 18" Length | 36" Length |
| 3/4" | 3/4" | 54770 | 54685 |
| | 1" | 56501 | 56512 |
| | 1-1/4" | 57539 | 57351 |
| | 1-1/2" | 56500 | 56513 |
| | 2" | 54771 | 54686 |
| | 2-1/2" | 54772 | 54687 |
| | 3" | 54773 | 54688 |
| | 4" | 54775 | 54690 |
| 7/8" | 5" | 54777 | 54692 |
| | 6" | 54778 | 54693 |
| | 7/8" | 54781 | 54696 |
| | 1" | 56503 | 56514 |
| | 1-1/2" | 56502 | 56515 |
| | 2" | 54782 | 54697 |
| | 2-1/2" | | 54698 |
| | 3" | 54784 | 54699 |
| 1" | 4" | 54785 | 54700 |
| | 6" | 54786 | 54701 |

| 497 Air Hardening Precision Ground Flat Stock | | | |
|---|--------|------------|------------|
| Thickness | Width | 18" Length | 36" Length |
| 1" | 1" | 54787 | 54702 |
| | 1-1/4" | 57540 | 57352 |
| | 1-1/2" | 56504 | 56516 |
| | 2" | 54788 | 54703 |
| | 2-1/2" | 54789 | 54704 |
| | 3" | 54790 | 54705 |
| | 4" | 54792 | 54707 |
| | 5" | 54794 | 54709 |
| 1-1/4" | 6" | 54795 | 54710 |
| | 1-1/4" | 54834 | 57684 |
| | 1-1/2" | 57683 | 57686 |
| | 2" | 54835 | 57687 |
| | 2-1/2" | 54836 | 57688 |
| | 3" | 54837 | 57689 |
| | 4" | 54838 | 57690 |
| | 5" | 54839 | 57691 |
| 6" | 54840 | 57692 | |

| 497 Air Hardening Precision Ground Flat Stock | | | |
|---|--------|------------|------------|
| Thickness | Width | 18" Length | 36" Length |
| 1-1/2" | 1-1/2" | 54843 | 57693 |
| | 2" | 54844 | 57694 |
| | 2-1/2" | 54845 | 57695 |
| | 3" | 54846 | 57696 |
| | 3-1/2" | 54847 | 57697 |
| | 4" | 54848 | 57698 |
| 2" | 6" | 54850 | 57699 |
| | 2" | 54853 | 57700 |
| | 2-1/2" | 54854 | 57701 |
| | 3" | 54855 | 57702 |
| | 4" | 54857 | 57703 |

Sizes other than listed priced on application

499 AIR HARDENING GROUND FLAT STOCK OVERSIZE TOLERANCE

| 499 Air Hardening Ground Flat Stock | | | |
|-------------------------------------|--------|------------|------------|
| Thickness | Width | 18" Length | 36" Length |
| 1/8" | 1/2" | 57541 | 57353 |
| | 5/8" | 57542 | 57354 |
| | 3/4" | 57543 | 57355 |
| | 1" | 57544 | 57356 |
| | 1-1/4" | 57545 | 57357 |
| | 1-1/2" | 57546 | 57358 |
| | 1-3/4" | 57547 | 57359 |
| | 2" | 57548 | 57360 |
| | 2-1/2" | 57549 | 57361 |
| | 3" | 57550 | 57362 |
| | 3-1/2" | 57551 | 57363 |
| | 4" | 57552 | 57364 |
| | 5" | 57553 | 57365 |
| | 6" | 57554 | 57366 |
| | 7" | 57555 | 57367 |
| | 8" | 57556 | 57368 |
| 1" | 10" | 57557 | 57369 |
| | 12" | 57558 | 57370 |

| 499 Air Hardening Ground Flat Stock | | | | |
|-------------------------------------|--------|------------|------------|-------|
| Thickness | Width | 18" Length | 36" Length | |
| 5/32" | 1/2" | 57559 | 57371 | |
| | 3/4" | 57560 | 57372 | |
| | 1" | 57561 | 57373 | |
| | 1-1/4" | 57562 | 57374 | |
| | 1-1/2" | 57563 | 57375 | |
| | 2" | 57564 | 57376 | |
| | 2-1/2" | 57565 | 57377 | |
| | 3" | 57566 | 57378 | |
| | 4" | 57567 | 57379 | |
| | 5" | 57568 | 57380 | |
| | 6" | 57569 | 57381 | |
| | 8" | 57570 | 57382 | |
| | 3/16" | 3/16" | 57571 | 57383 |
| | | 1/2" | 57572 | 57384 |
| | | 3/4" | 57573 | 57385 |
| | | 1" | 57162 | 56896 |
| 1-1/4" | | 57163 | 56897 | |
| 1-1/2" | | 57164 | 56898 | |
| 1-3/4" | | 57574 | 57386 | |
| 2" | | 57165 | 56899 | |
| 2-1/2" | | 57166 | 56900 | |
| 3" | | 57167 | 56901 | |

| 499 Air Hardening Ground Flat Stock | | | |
|-------------------------------------|--------|------------|------------|
| Thickness | Width | 18" Length | 36" Length |
| 3/16" | 3-1/2" | 57575 | 57387 |
| | 4" | 57168 | 56902 |
| | 5" | 57576 | 57388 |
| | 6" | 57577 | 57389 |
| | 8" | 57578 | 57390 |
| | 10" | 57579 | 57391 |
| 1/4" | 1/4" | 57580 | 57392 |
| | 3/8" | | 58906 |
| | 1/2" | 57581 | 57393 |
| | 3/4" | 57582 | 57394 |
| | 1" | 57169 | 56903 |
| | 1-1/4" | 57170 | 56904 |
| | 1-1/2" | 57171 | 56905 |
| | 1-3/4" | 57583 | 57395 |
| | 2" | 57172 | 56906 |
| | 2-1/2" | 57173 | 56907 |
| | 3" | 57174 | 56908 |
| | 3-1/2" | 57584 | 57396 |
| | 4" | 57175 | 56909 |
| | 5" | 57176 | 56910 |
| 6" | 57177 | 56911 | |
| 7" | 57585 | 57397 | |

499, 1-1/4" and over is Blanchard ground with saw cut edges
Sizes other than listed priced on application



PRECISION GROUND FLAT STOCK

499 AIR HARDENING GROUND FLAT STOCK OVERSIZE TOLERANCE

| 499 Air Hardening Ground Flat Stock | | | |
|-------------------------------------|--------|------------|------------|
| Thickness | Width | 18" Length | 36" Length |
| 1/4" | 8" | 57586 | 57398 |
| | 10" | 57587 | 57399 |
| | 12" | 57588 | 57400 |
| 5/16" | 5/16" | 57589 | 57401 |
| | 1/2" | 57590 | 57402 |
| | 3/4" | 57591 | 57403 |
| | 1" | 57178 | 56912 |
| | 1-1/4" | 57179 | 56913 |
| | 1-1/2" | 57180 | 56914 |
| | 1-3/4" | 57592 | 57404 |
| | 2" | 57181 | 56915 |
| | 2-1/2" | 57593 | 57405 |
| | 3" | 57182 | 56916 |
| | 3-1/2" | 57594 | 57406 |
| | 4" | 57183 | 56917 |
| 3/8" | 3/8" | 57597 | 57409 |
| | 1/2" | 57598 | 57410 |
| | 3/4" | 57599 | 57411 |
| | 1" | 57185 | 56919 |
| | 1-1/4" | 57186 | 56920 |
| | 1-1/2" | 57187 | 56921 |
| | 1-3/4" | 57600 | 57412 |
| | 2" | 57188 | 56922 |
| | 2-1/2" | 57189 | 56923 |
| | 3" | 57190 | 56924 |
| | 3-1/2" | 57191 | 56925 |
| | 4" | 57192 | 56926 |
| 1/2" | 4-1/2" | 57601 | 57413 |
| | 5" | 57193 | 56927 |
| | 6" | 57194 | 56928 |
| | 7" | 57602 | 57414 |
| | 8" | 57603 | 57415 |
| | 10" | 57604 | 57416 |
| | 12" | 57605 | 57417 |
| | 1/2" | 57195 | 56929 |
| | 5/8" | 57606 | 57418 |
| | 3/4" | 57196 | 56930 |
| | 1" | 57197 | 56931 |
| | 1-1/4" | 57607 | 57419 |
| 1-1/2" | 57608 | 57420 | |
| 1-3/4" | 57609 | 57421 | |
| 2" | 57198 | 56932 | |

| 499 Air Hardening Ground Flat Stock | | | |
|-------------------------------------|--------|------------|------------|
| Thickness | Width | 18" Length | 36" Length |
| 1/2" | 2-1/2" | 57199 | 56933 |
| | 3" | 57200 | 56934 |
| | 3-1/2" | 57201 | 56935 |
| | 4" | 57202 | 56936 |
| | 4-1/2" | 57610 | 57422 |
| | 5" | 57203 | 56937 |
| | 6" | 57204 | 56938 |
| | 7" | 57611 | 57423 |
| | 8" | 57612 | 57424 |
| | 10" | 57613 | 57425 |
| 9/16" | 12" | 57614 | 57426 |
| | 2" | 57615 | 57427 |
| | 2-1/2" | 57616 | 57428 |
| | 3" | 57617 | 57429 |
| 5/8" | 4" | 57618 | 57430 |
| | 5/8" | 57205 | 56939 |
| | 3/4" | 57206 | 56940 |
| | 1" | 57207 | 56941 |
| | 1-1/4" | 57619 | 57431 |
| | 1-1/2" | 57208 | 56942 |
| | 2" | 57209 | 56943 |
| | 2-1/2" | 57210 | 56944 |
| | 3" | 57211 | 56945 |
| | 3-1/2" | 57212 | 56946 |
| 3/4" | 4" | 57620 | 57432 |
| | 5" | 57621 | 57433 |
| | 6" | 57622 | 57434 |
| | 8" | 57623 | 57435 |
| | 10" | 57624 | 57436 |
| | 3/4" | 57213 | 56947 |
| | 1" | 57214 | 56948 |
| | 1-1/4" | 57625 | 57437 |
| | 1-1/2" | 57215 | 56949 |
| | 1-3/4" | 57626 | 57438 |
| 1" | 2" | 57216 | 56950 |
| | 2-1/2" | 57627 | 57439 |
| | 3" | 57217 | 56951 |
| | 3-1/2" | 57628 | 57440 |
| | 4" | 57218 | 56952 |
| | 4-1/2" | 57629 | 57441 |
| | 5" | 57630 | 57442 |
| | 6" | 57631 | 57443 |
| | 8" | 57632 | 57444 |
| | 10" | 57633 | 57445 |
| 1-1/4" | 12" | 57634 | 57446 |

| 499 Air Hardening Ground Flat Stock | | | |
|-------------------------------------|--------|------------|------------|
| Thickness | Width | 18" Length | 36" Length |
| 7/8" | 7/8" | 57635 | 57447 |
| | 1" | 57636 | 57448 |
| | 1-1/4" | 57637 | 57449 |
| | 1-1/2" | 57638 | 57450 |
| | 2" | 57639 | 57451 |
| | 2-1/2" | 57640 | 57452 |
| | 3" | 57641 | 57453 |
| | 3-1/2" | 57642 | 57454 |
| | 4" | 57643 | 57455 |
| | 5" | 57644 | 57456 |
| 1" | 6" | 57645 | 57457 |
| | 1" | 57219 | 56953 |
| | 1-1/4" | 57646 | 57458 |
| | 1-1/2" | 57220 | 56954 |
| | 1-3/4" | 57647 | 57459 |
| | 2" | 57221 | 56955 |
| | 2-1/2" | 57648 | 57460 |
| | 3" | 57222 | 56956 |
| | 3-1/2" | 57649 | 57461 |
| | 4" | 57650 | 57462 |
| 1-1/4" | 4-1/2" | 57651 | 57463 |
| | 5" | 57652 | 57464 |
| | 6" | 57653 | 57465 |
| | 8" | 57654 | 57466 |
| | 12" | 57655 | 57467 |
| | 1-1/4" | 57656 | 57468 |
| | 1-1/2" | 57657 | 57469 |
| | 2" | 57658 | 57470 |
| | 2-1/2" | 57659 | 57471 |
| | 3" | 57660 | 57472 |
| 1-1/2" | 4" | 57661 | 57473 |
| | 5" | 57662 | 57474 |
| | 6" | 57663 | 57475 |
| | 1-1/2" | 57664 | 57476 |
| | 2" | 57665 | 57477 |
| | 2-1/2" | 57666 | 57478 |
| | 3" | 57667 | 57479 |
| | 3-1/2" | 57668 | 57480 |
| | 4" | 57669 | 57481 |
| | 6" | 57670 | 57482 |
| 2" | 8" | 59137 | 59169 |
| | 12" | 59138 | 59170 |
| | 2" | 57671 | 57483 |
| | 2-1/2" | 57672 | 57484 |
| | 3" | 57673 | 57485 |
| | 4" | 57674 | 57486 |
| | 2-1/2" | 57675 | 57487 |
| | 3" | 57676 | 57488 |

FLAT STOCK AND DRILL ROD

499, 1-1/4" and over is Blanchard ground with saw cut edges
Sizes other than listed priced on application



Check out our website for interactive features at starrett.com



PRECISION GROUND FLAT STOCK

344 A6 AIR HARDENING PRECISION GROUND FLAT STOCK

A6 is a medium alloyed air hardening tool steel that provides an excellent balance of machinability, toughness and wear resistance. Its lower heat treating temperature, which is similar to that of oil hardening steel, results in deep hardness and minimum distortion.

SPECIFICATIONS

Furnished in 36" lengths, ground straight and parallel.

Heat Treatment and Tempering Data available upon request



NOMINAL ANALYSIS (AISI A6)

| | |
|------------------|------|
| Carbon | .70 |
| Chromium | 1.00 |
| Manganese | 2.00 |
| Molybdenum | 1.25 |
| Vanadium | - |
| Tungsten | - |

344 AIR HARDENING PRECISION GROUND FLAT STOCK

| 344 Air Hardening Precision Ground Flat Stock | | |
|---|--------|------------|
| Thickness | Width | 36" Length |
| 1/16" | 1/4" | 58907 |
| | 5/16" | 58908 |
| | 3/8" | 58909 |
| | 1/2" | 58910 |
| | 5/8" | 58911 |
| | 3/4" | 58912 |
| | 7/8" | 58913 |
| | 1" | 58914 |
| | 1-1/4" | 58915 |
| | 1-1/2" | 58916 |
| | 1-3/4" | 58917 |
| | 2" | 58918 |
| | 2-1/2" | 58919 |
| | 3" | 58920 |
| | 3-1/2" | 58921 |
| | 4" | 58922 |
| 5" | 58923 | |
| 6" | 58924 | |

| 344 Air Hardening Precision Ground Flat Stock | | |
|---|--------|------------|
| Thickness | Width | 36" Length |
| 3/32" | 1/4" | 58925 |
| | 5/16" | 58926 |
| | 3/8" | 58927 |
| | 1/2" | 58928 |
| | 5/8" | 58929 |
| | 3/4" | 58930 |
| | 7/8" | 58931 |
| | 1" | 58932 |
| | 1-1/4" | 58933 |
| | 1-1/2" | 58934 |
| | 1-3/4" | 58935 |
| | 2" | 58936 |
| | 2-1/2" | 58937 |
| | 3" | 58938 |
| | 3-1/2" | 58939 |
| | 4" | 58940 |
| 5" | 58941 | |
| 6" | 58942 | |

| 344 Air Hardening Precision Ground Flat Stock | | |
|---|--------|------------|
| Thickness | Width | 36" Length |
| 1/8" | 1/4" | 58943 |
| | 5/16" | 58944 |
| | 3/8" | 58945 |
| | 1/2" | 58946 |
| | 5/8" | 58947 |
| | 3/4" | 58948 |
| | 7/8" | 58949 |
| | 1" | 58950 |
| | 1-1/4" | 58951 |
| | 1-1/2" | 58952 |
| | 1-3/4" | 58953 |
| | 2" | 58954 |
| | 2-1/2" | 58955 |
| | 3" | 58956 |
| | 3-1/2" | 58957 |
| | 4" | 58958 |
| 5" | 58959 | |
| 6" | 58960 | |
| 7" | 58961 | |
| 8" | 58962 | |
| 10" | 58963 | |
| 12" | 58964 | |

Sizes other than listed priced on application



524

Starrett



PRECISION GROUND FLAT STOCK

344 AIR HARDENING PRECISION GROUND FLAT STOCK

| 344 Air Hardening Precision Ground Flat Stock | | |
|---|--------|------------|
| Thickness | Width | 36" Length |
| 3/16" | 3/16" | 58965 |
| | 1/4" | 58966 |
| | 5/16" | 58967 |
| | 3/8" | 58968 |
| | 1/2" | 58969 |
| | 5/8" | 58970 |
| | 3/4" | 58971 |
| | 7/8" | 58972 |
| | 1" | 58973 |
| | 1-1/4" | 58974 |
| | 1-1/2" | 58975 |
| | 1-3/4" | 58976 |
| | 2" | 58977 |
| | 2-1/2" | 58978 |
| | 3" | 58979 |
| | 3-1/2" | 58980 |
| 1/4" | 4" | 58981 |
| | 5" | 58982 |
| | 6" | 58983 |
| | 7" | 58984 |
| | 8" | 58985 |
| | 10" | 58986 |
| | 12" | 58987 |
| | 1/4" | 58988 |
| | 5/16" | 58989 |
| | 3/8" | 58990 |
| | 1/2" | 58991 |
| | 5/8" | 58992 |
| | 3/4" | 58993 |
| | 7/8" | 58994 |
| | 1" | 58995 |
| | 1-1/4" | 58996 |
| 1-1/2" | 58997 | |
| 1-3/4" | 58998 | |
| 2" | 58999 | |
| 2-1/2" | 59000 | |
| 3" | 59001 | |
| 3-1/2" | 59002 | |
| 4" | 59003 | |
| 5" | 59004 | |
| 6" | 59005 | |
| 7" | 59006 | |
| 8" | 59007 | |
| 10" | 59008 | |
| 12" | 59009 | |
| 5/16" | 5/16" | 59010 |
| | 3/8" | 59011 |
| | 1/2" | 59012 |
| | 5/8" | 59013 |
| | 3/4" | 59014 |
| | 7/8" | 59015 |
| | 1" | 59016 |
| | 1-1/4" | 59017 |
| | 1-1/2" | 59018 |
| 1-3/4" | 59019 | |

| 344 Air Hardening Precision Ground Flat Stock | | |
|---|--------|------------|
| Thickness | Width | 36" Length |
| 5/16" | 2" | 59020 |
| | 2-1/2" | 59021 |
| | 3" | 59022 |
| | 3-1/2" | 59023 |
| | 4" | 59024 |
| | 4-1/2" | 59025 |
| | 5" | 59026 |
| | 5-1/2" | 59027 |
| | 6" | 59028 |
| | 8" | 59029 |
| | 10" | 59030 |
| | 12" | 59031 |
| 3/8" | 3/8" | 59032 |
| | 1/2" | 59033 |
| | 5/8" | 59034 |
| | 3/4" | 59035 |
| | 7/8" | 59036 |
| | 1" | 59037 |
| | 1-1/4" | 59038 |
| | 1-1/2" | 59039 |
| | 1-3/4" | 59040 |
| | 2" | 59041 |
| | 2-1/2" | 59042 |
| | 3" | 59043 |
| 3-1/2" | 59044 | |
| 4" | 59045 | |
| 4-1/2" | 59046 | |
| 5" | 59047 | |
| 6" | 59048 | |
| 7" | 59049 | |
| 8" | 59050 | |
| 10" | 59051 | |
| 12" | 59052 | |
| 1/2" | 1/2" | 59053 |
| | 5/8" | 59054 |
| | 3/4" | 59055 |
| | 7/8" | 59056 |
| | 1" | 59057 |
| | 1-1/4" | 59058 |
| | 1-1/2" | 59059 |
| | 1-3/4" | 59060 |
| | 2" | 59061 |
| | 2-1/2" | 59062 |
| | 3" | 59063 |
| | 3-1/2" | 59064 |
| 4" | 59065 | |
| 4-1/2" | 59066 | |
| 5" | 59067 | |
| 5-1/2" | 59068 | |
| 6" | 59069 | |
| 7" | 59070 | |
| 8" | 59071 | |
| 10" | 59072 | |
| 12" | 59073 | |

| 344 Air Hardening Precision Ground Flat Stock | | | |
|---|--------|------------|-------|
| Thickness | Width | 36" Length | |
| 5/8" | 5/8" | 59074 | |
| | 3/4" | 59075 | |
| | 7/8" | 59076 | |
| | 1" | 59077 | |
| | 1-1/4" | 59078 | |
| | 1-1/2" | 59079 | |
| | 1-3/4" | 59080 | |
| | 2" | 59081 | |
| | 2-1/2" | 59082 | |
| | 3" | 59083 | |
| 3/4" | 3-1/2" | 59084 | |
| | 4" | 59085 | |
| | 4-1/2" | 59086 | |
| | 5" | 59087 | |
| | 5-1/2" | 59088 | |
| | 6" | 59089 | |
| | 7" | 59090 | |
| | 8" | 59091 | |
| | 10" | 59092 | |
| | 1" | 3/4" | 59093 |
| 7/8" | | 59094 | |
| 1" | | 59095 | |
| 1-1/4" | | 59096 | |
| 1-1/2" | | 59097 | |
| 1-3/4" | | 59098 | |
| 2" | | 59099 | |
| 2-1/2" | | 59100 | |
| 3" | | 59101 | |
| 3-1/2" | | 59102 | |
| 5/16" | 4" | 59103 | |
| | 4-1/2" | 59104 | |
| | 5" | 59105 | |
| | 5-1/2" | 59106 | |
| | 6" | 59107 | |
| | 7" | 59108 | |
| | 8" | 59109 | |
| | 10" | 59110 | |
| | 3/8" | 1" | 59111 |
| | | 1-1/4" | 59112 |
| 1-1/2" | | 59113 | |
| 1-3/4" | | 59114 | |
| 2" | | 59115 | |
| 2-1/2" | | 59116 | |
| 3" | | 59117 | |
| 3-1/2" | | 59118 | |
| 4" | | 59119 | |
| 4-1/2" | | 59120 | |
| 1/4" | 5" | 59121 | |
| | 5-1/2" | 59122 | |
| | 6" | 59123 | |
| | 7" | 59124 | |
| | 8" | 59125 | |
| | 10" | 59126 | |

Sizes other than listed priced on application

FLAT STOCK AND DRILL ROD



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525



PRECISION GROUND FLAT STOCK

401 AND 402 HIGH CARBON, HIGH CHROMIUM PRECISION GROUND FLAT STOCK

- High carbon, high chromium steel
- For applications that demand the highest wear resistance
- 401 is standard tolerance
- 402 is oversize tolerance



SPECIFICATIONS

Furnished in 18" and 36" lengths, ground straight and parallel.

401 HIGH CARBON, HIGH CHROMIUM PRECISION GROUND FLAT STOCK

STANDARD TOLERANCE





| 401 High Carbon, High Chromium Precision Ground Flat Stock | | | | 401 High Carbon, High Chromium Precision Ground Flat Stock | | | | 401 High Carbon, High Chromium Precision Ground Flat Stock | | | |
|--|--------|------------|------------|--|--------|------------|------------|--|--------|------------|------------|
| Thickness | Width | 18" Length | 36" Length | Thickness | Width | 18" Length | 36" Length | Thickness | Width | 18" Length | 36" Length |
| 1/16" | 1/2" | 69097 | 69232 | 3/16" | 1/2" | 69141 | 69276 | 1/2" | 3/4" | 69185 | 69320 |
| | 3/4" | 69098 | 69233 | | 3/4" | 69142 | 69277 | | 1" | 69186 | 69321 |
| | 1" | 69099 | 69234 | | 1" | 69143 | 69278 | | 1-1/4" | 69187 | 69322 |
| | 1-1/4" | 69100 | 69235 | | 1-1/4" | 69144 | 69279 | | 1-1/2" | 69188 | 69323 |
| | 1-1/2" | 69101 | 69236 | | 1-1/2" | 69145 | 69280 | | 2" | 69189 | 69324 |
| | 2" | 69102 | 69237 | | 2" | 69146 | 69281 | | 2-1/2" | 69190 | 69325 |
| | 2-1/2" | 69103 | 69238 | | 2-1/2" | 69147 | 69282 | | 3" | 69191 | 69326 |
| | 3" | 69104 | 69239 | | 3" | 69148 | 69283 | | 4" | 69192 | 69327 |
| 3/32" | 4" | 69105 | 69240 | 4" | 69149 | 69284 | 5" | 69193 | 69328 | | |
| | 5" | 69106 | 69241 | 5" | 69150 | 69285 | 6" | 69194 | 69329 | | |
| | 6" | 69107 | 69242 | 6" | 69151 | 69286 | 5/8" | 69195 | 69330 | | |
| | 1/2" | 69108 | 69243 | 1/2" | 69152 | 69287 | 3/4" | 69196 | 69331 | | |
| | 3/4" | 69109 | 69244 | 3/4" | 69153 | 69288 | 1" | 69197 | 69332 | | |
| | 1" | 69110 | 69245 | 1" | 69154 | 69289 | 1-1/4" | 69198 | 69333 | | |
| | 1-1/4" | 69111 | 69246 | 1-1/4" | 69155 | 69290 | 1-1/2" | 69199 | 69334 | | |
| | 1-1/2" | 69112 | 69247 | 1-1/2" | 69156 | 69291 | 2" | 69200 | 69335 | | |
| 1/8" | 2" | 69113 | 69248 | 2" | 69157 | 69292 | 2-1/2" | 69201 | 69336 | | |
| | 2-1/2" | 69114 | 69249 | 2-1/2" | 69158 | 69293 | 3" | 69202 | 69337 | | |
| | 3" | 69115 | 69250 | 3" | 69159 | 69294 | 4" | 69203 | 69338 | | |
| | 4" | 69116 | 69251 | 4" | 69160 | 69295 | 5" | 69204 | 69339 | | |
| | 5" | 69117 | 69252 | 5" | 69161 | 69296 | 6" | 69205 | 69340 | | |
| | 6" | 69118 | 69253 | 6" | 69162 | 69297 | 3/4" | 69206 | 69341 | | |
| | 1/2" | 69119 | 69254 | 1/2" | 69163 | 69298 | 1" | 69207 | 69342 | | |
| | 3/4" | 69120 | 69255 | 3/4" | 69164 | 69299 | 1-1/4" | 69208 | 69343 | | |
| 5/16" | 1" | 69121 | 69256 | 1" | 69165 | 69300 | 1-1/2" | 69209 | 69344 | | |
| | 1-1/4" | 69122 | 69257 | 1-1/4" | 69166 | 69301 | 2" | 69210 | 69345 | | |
| | 1-1/2" | 69123 | 69258 | 1-1/2" | 69167 | 69302 | 2-1/2" | 69211 | 69346 | | |
| | 2" | 69124 | 69259 | 2" | 69168 | 69303 | 3" | 69212 | 69347 | | |
| | 2-1/2" | 69125 | 69260 | 2-1/2" | 69169 | 69304 | 4" | 69213 | 69348 | | |
| | 3" | 69126 | 69261 | 3" | 69170 | 69305 | 5" | 69214 | 69349 | | |
| | 4" | 69127 | 69262 | 4" | 69171 | 69306 | 6" | 69215 | 69350 | | |
| | 5" | 69128 | 69263 | 5" | 69172 | 69307 | 7/8" | 69216 | 69351 | | |
| 3/8" | 6" | 69129 | 69264 | 6" | 69173 | 69308 | 1" | 69217 | 69352 | | |
| | 1/2" | 69130 | 69265 | 1/2" | 69174 | 69309 | 2" | 69218 | 69353 | | |
| | 3/4" | 69131 | 69266 | 3/4" | 69175 | 69310 | 3" | 69219 | 69354 | | |
| | 1" | 69132 | 69267 | 1" | 69176 | 69311 | 4" | 69220 | 69355 | | |
| | 1-1/4" | 69133 | 69268 | 1-1/4" | 69177 | 69312 | 5" | 69221 | 69356 | | |
| | 1-1/2" | 69134 | 69269 | 1-1/2" | 69178 | 69313 | 6" | 69222 | 69357 | | |
| | 2" | 69135 | 69270 | 2" | 69179 | 69314 | 1" | 69223 | 69358 | | |
| | 2-1/2" | 69136 | 69271 | 2-1/2" | 69180 | 69315 | 1-1/4" | 69224 | 69359 | | |
| 5/32" | 3" | 69137 | 69272 | 3" | 69181 | 69316 | 1-1/2" | 69225 | 69360 | | |
| | 4" | 69138 | 69273 | 4" | 69182 | 69317 | 2" | 69226 | 69361 | | |
| | 5" | 69139 | 69274 | 5" | 69183 | 69318 | 2-1/2" | 69227 | 69362 | | |
| | 6" | 69140 | 69275 | 6" | 69184 | 69319 | 3" | 69228 | 69363 | | |
| | | | | | | | 4" | 69229 | 69364 | | |
| | | | | | | | 5" | 69230 | 69365 | | |
| | | | | | | | 6" | 69231 | 69366 | | |
| | | | | | | | | | | | |

Sizes other than listed priced on application



PRECISION GROUND FLAT STOCK

402 HIGH CARBON, HIGH CHROMIUM GROUND FLAT STOCK OVERSIZE TOLERANCE

| 402 High Carbon, High Chromium Ground Flat Stock | | | | 402 High Carbon, High Chromium Ground Flat Stock | | | | 402 High Carbon, High Chromium Ground Flat Stock | | | | |
|--|--------|------------|------------|--|--------|------------|------------|--|--|--|---|---|
| Thickness | Width | 18" Length | 36" Length | Thickness | Width | 18" Length | 36" Length | Thickness | Width | 18" Length | 36" Length | |
| 1/8" | 1/2" | 69367 | 69481 | 5/16" | 1/2" | 69411 | 69525 | 3/4" | 3/4" | 69455 | 69569 | |
| | 3/4" | 69368 | 69482 | | 3/4" | 69412 | 69526 | | 1" | 69456 | 69570 | |
| | 1" | 69369 | 69483 | | 1" | 69413 | 69527 | | 1-1/4" | 69457 | 69571 | |
| | 1-1/4" | 69370 | 69484 | | 1-1/4" | 69414 | 69528 | | 1-1/2" | 69458 | 69572 | |
| | 1-1/2" | 69371 | 69485 | | 1-1/2" | 69415 | 69529 | | 2" | 69459 | 69573 | |
| | 2" | 69372 | 69486 | | 2" | 69416 | 69530 | | 2-1/2" | 69460 | 69574 | |
| | 2-1/2" | 69373 | 69487 | | 2-1/2" | 69417 | 69531 | | 3" | 69461 | 69575 | |
| | 3" | 69374 | 69488 | | 3" | 69418 | 69532 | | 4" | 69462 | 69576 | |
| | 4" | 69375 | 69489 | | 4" | 69419 | 69533 | | 5" | 69463 | 69577 | |
| 5" | 69376 | 69490 | 5" | 69420 | 69534 | 6" | 69464 | 69578 | | | | |
| 6" | 69377 | 69491 | 6" | 69421 | 69535 | 7/8" | 7/8" | 69465 | 69579 | | | |
| 5/32" | 1/2" | 69378 | 69492 | 3/8" | 1/2" | | 69422 | 69536 | 1" | 69466 | 69580 | |
| | 3/4" | 69379 | 69493 | | 3/4" | | 69423 | 69537 | 1-1/2" | 69467 | 69581 | |
| | 1" | 69380 | 69494 | | 1" | | 69424 | 69538 | 2" | 69468 | 69582 | |
| | 1-1/4" | 69381 | 69495 | | 1-1/4" | | 69425 | 69539 | 3" | 69469 | 69583 | |
| | 1-1/2" | 69382 | 69496 | | 1-1/2" | | 69426 | 69540 | 4" | 69470 | 69584 | |
| | 2" | 69383 | 69497 | | 2" | 69427 | 69541 | 6" | 69471 | 69585 | | |
| | 2-1/2" | 69384 | 69498 | | 2-1/2" | 69428 | 69542 | 1" | 1" | 69472 | 69586 | |
| | 3" | 69385 | 69499 | | 3" | 69429 | 69543 | | 1-1/4" | 69473 | 69587 | |
| | 4" | 69386 | 69500 | | 4" | 69430 | 69544 | | 1-1/2" | 69474 | 69588 | |
| 5" | 69387 | 69501 | 5" | 69431 | 69545 | 2" | 69475 | | 69589 | | | |
| 6" | 69388 | 69502 | 6" | 69432 | 69546 | 2-1/2" | 69476 | | 69590 | | | |
| 3/16" | 1/2" | 69389 | 69503 | 1/2" | 1/2" | 69433 | 69547 | | 3" | 69477 | 69591 | |
| | 3/4" | 69390 | 69504 | | 3/4" | 69434 | 69548 | 4" | 69478 | 69592 | | |
| | 1" | 69391 | 69505 | | 1" | 69435 | 69549 | 5" | 69479 | 69593 | | |
| | 1-1/4" | 69392 | 69506 | | 1-1/4" | 69436 | 69550 | 6" | 69480 | 69594 | | |
| | 1-1/2" | 69393 | 69507 | | 1-1/2" | 69437 | 69551 | 5/8" | 5/8" | 69444 | 69558 | |
| | 2" | 69394 | 69508 | | 2" | 69438 | 69552 | | 3/4" | 69445 | 69559 | |
| | 2-1/2" | 69395 | 69509 | | 2-1/2" | 69439 | 69553 | | 1" | 69446 | 69560 | |
| | 3" | 69396 | 69510 | | 3" | 69440 | 69554 | | 1-1/4" | 69447 | 69561 | |
| | 4" | 69397 | 69511 | | 4" | 69441 | 69555 | | 1-1/2" | 69448 | 69562 | |
| 5" | 69398 | 69512 | 5" | 69442 | 69556 | 2" | 69449 | | 69563 | | | |
| 6" | 69399 | 69513 | 6" | 69443 | 69557 | 2-1/2" | 69450 | | 69564 | | | |
| 1/4" | 1/2" | 69400 | 69514 | 5/8" | 5/8" | 69444 | 69558 | | 3" | 69451 | 69565 | |
| | 3/4" | 69401 | 69515 | | 3/4" | 69445 | 69559 | | 4" | 69452 | 69566 | |
| | 1" | 69402 | 69516 | | 1" | 69446 | 69560 | 5" | 69453 | 69567 | | |
| | 1-1/4" | 69403 | 69517 | | 1-1/4" | 69447 | 69561 | 6" | 69454 | 69568 | | |
| | 1-1/2" | 69404 | 69518 | | 1-1/2" | 69448 | 69562 | AS |  | | | |
| | 2" | 69405 | 69519 | | 2" | 69449 | 69563 | | |  | | |
| | 2-1/2" | 69406 | 69520 | | 2-1/2" | 69450 | 69564 | | | |  | |
| | 3" | 69407 | 69521 | | 3" | 69451 | 69565 | | | | |  |
| | 4" | 69408 | 69522 | | 4" | 69452 | 69566 | | | | | |
| 5" | 69409 | 69523 | 5" | 69453 | 69567 | | | | | | | |
| 6" | 69410 | 69524 | 6" | 69454 | 69568 | | | | | | | |

Sizes other than listed priced on application



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527



FLAT STOCK AND DRILL ROD

PRECISION GROUND FLAT STOCK

498 Low Carbon Precision Ground Flat Stock

- Substantial cost reductions over tool steel ground flat stock. There are savings up to 60% because this is a low carbon steel and furnished in 24" lengths. This means that you get one-third more steel at less cost.
- Ideal for a wide variety of parts that don't require more expensive heat treated steels, such as stripper plates, jigs, fixtures, machine and component parts, templates, etc.
- This steel can be carburized or case hardened. After hardening, its physical properties, especially tensile strength, yield point, and Brinell hardness, are substantially higher.
- **NOTE:** Thicknesses of 1/8" and under are made from AISI 1010 material
- Starrett uses its own ground flat stock for many of its precision tool parts



SPECIFICATIONS

Furnished in 24" lengths, ground straight and parallel.

ANALYSIS

Starrett 498 Low Carbon Precision Ground Flat Stock is a .20 carbon fine-grained, milled steel, which can be carburized or case hardened. Very similar to AISI 1018.

HEAT TREATMENT

For many applications, stock can be used unhardened. However, if surface hardening is desired, it can be carburized or case hardened. If carburized, a case of 1/32" will be obtained if the steel is held in carburizing salt at 1700° F for three hours.

498 Low Carbon Precision Ground Flat Stock

| 498 Low Carbon Precision Ground Flat Stock | | |
|--|--------|------------|
| Thickness | Width | 24" Length |
| 1/16" | 1/2" | 54866 |
| | 3/4" | 54867 |
| | 1" | 54868 |
| | 1-1/4" | 54869 |
| | 1-1/2" | 54870 |
| | 2" | 54871 |
| | 2-1/2" | 54872 |
| | 3" | 54873 |
| | 3-1/2" | 54874 |
| | 4" | 54875 |
| | 5" | 54876 |
| | 6" | 54877 |
| 3/32" | 1/2" | 54881 |
| | 3/4" | 54882 |
| | 1" | 54883 |
| | 1-1/4" | 54884 |
| | 1-1/2" | 54885 |
| | 2" | 54886 |
| | 2-1/2" | 54887 |
| | 3" | 54888 |
| | 3-1/2" | 58285 |
| | 4" | 54889 |

| 498 Low Carbon Precision Ground Flat Stock | | |
|--|--------|------------|
| Thickness | Width | 24" Length |
| 3/32" | 5" | 54890 |
| | 6" | 54891 |
| | 8" | 54892 |
| | 10" | 58286 |
| | 12" | 58287 |
| | 1/8" | 1/2" |
| 3/4" | | 54894 |
| 1" | | 54895 |
| 1-1/4" | | 54896 |
| 1-1/2" | | 54897 |
| 2" | | 54898 |
| 2-1/2" | | 54899 |
| 3" | | 54900 |
| 3-1/2" | | 54901 |
| 4" | | 54902 |
| 5" | | 54903 |
| 6" | | 54904 |
| 5/32" | 8" | 54905 |
| | 10" | 54906 |
| | 12" | 54907 |
| | 1/2" | 54908 |
| | 3/4" | 54909 |
| | 1" | 54910 |
| 1-1/4" | 54911 | |
| | 1-1/2" | 54912 |

| 498 Low Carbon Precision Ground Flat Stock | | | |
|--|--------|------------|-------|
| Thickness | Width | 24" Length | |
| 5/32" | 2" | 54913 | |
| | 2-1/2" | 54914 | |
| | 3" | 54915 | |
| | 3-1/2" | 58290 | |
| | 4" | 54917 | |
| | 5" | 54918 | |
| | 6" | 54919 | |
| | 8" | 58291 | |
| | 10" | 58292 | |
| | 12" | 58293 | |
| | 3/16" | 3/16" | 57247 |
| | | 1/2" | 54921 |
| 3/4" | | 54922 | |
| 1" | | 54923 | |
| 1-1/4" | | 54924 | |
| 1-1/2" | | 54925 | |
| 2" | | 54926 | |
| 2-1/2" | | 54927 | |
| 3" | | 54928 | |
| 3-1/2" | | 54929 | |
| 4" | | 54930 | |
| 5" | | 54931 | |
| 6" | 54932 | | |
| 8" | 54933 | | |
| 10" | 54934 | | |
| 12" | 57248 | | |

Sizes other than listed priced on application



528

Starrett



498 LOW CARBON PRECISION GROUND FLAT STOCK

| 498 Low Carbon Precision Ground Flat Stock | | |
|--|--------|------------|
| Thickness | Width | 24" Length |
| 1/4" | 1/4" | 57249 |
| | 1/2" | 54935 |
| | 3/4" | 54936 |
| | 1" | 54937 |
| | 1-1/4" | 54938 |
| | 1-1/2" | 54939 |
| | 2" | 54940 |
| | 2-1/2" | 54941 |
| | 3" | 54942 |
| | 3-1/2" | 54943 |
| | 4" | 54944 |
| | 5" | 54945 |
| | 6" | 54946 |
| 8" | 54947 | |
| 10" | 54948 | |
| 12" | 54949 | |
| 5/16" | 5/16" | 57250 |
| | 1/2" | 54950 |
| | 3/4" | 54951 |
| | 1" | 54952 |
| | 1-1/4" | 54953 |
| | 1-1/2" | 54954 |
| | 2" | 54955 |
| | 2-1/2" | 54956 |
| | 3" | 54957 |
| | 3-1/2" | 54958 |
| | 4" | 54959 |
| | 5" | 54960 |
| | 6" | 54961 |
| 8" | 54962 | |
| 10" | 57251 | |
| 12" | 57252 | |
| 3/8" | 3/8" | 54964 |
| | 1/2" | 54965 |
| | 3/4" | 54966 |
| | 1" | 54967 |
| | 1-1/4" | 54968 |
| | 1-1/2" | 54969 |
| | 2" | 54970 |
| | 2-1/2" | 54971 |
| | 3" | 54972 |
| | 3-1/2" | 54973 |
| | 4" | 54974 |
| | 5" | 54975 |
| | 6" | 54976 |
| 7" | 54977 | |
| 8" | 54978 | |
| 9" | 54979 | |
| 10" | 54980 | |
| 12" | 54981 | |
| 7/16" | 7/16" | 54982 |

| 498 Low Carbon Precision Ground Flat Stock | | |
|--|--------|------------|
| Thickness | Width | 24" Length |
| 1/2" | 1/2" | 54983 |
| | 3/4" | 54984 |
| | 1" | 54985 |
| | 1-1/4" | 54986 |
| | 1-1/2" | 54987 |
| | 2" | 54988 |
| | 2-1/2" | 54989 |
| | 3" | 54990 |
| | 3-1/2" | 54991 |
| | 4" | 54992 |
| | 5" | 54993 |
| | 6" | 54994 |
| | 7" | 54995 |
| 8" | 54996 | |
| 9" | 54997 | |
| 10" | 54998 | |
| 12" | 54999 | |
| 9/16" | 9/16" | 55000 |
| 5/8" | 5/8" | 55001 |
| | 3/4" | 55002 |
| | 1" | 55003 |
| | 1-1/4" | 55004 |
| | 1-1/2" | 55005 |
| | 2" | 55006 |
| | 2-1/2" | 55007 |
| | 3" | 55008 |
| | 3-1/2" | 55009 |
| | 4" | 55010 |
| | 5" | 55011 |
| | 6" | 55012 |
| | 7" | 55013 |
| 8" | 55014 | |
| 9" | 55015 | |
| 10" | 55016 | |
| 12" | 57253 | |
| 3/4" | 3/4" | 55017 |
| | 1" | 55018 |
| | 1-1/4" | 55019 |
| | 1-1/2" | 55020 |
| | 2" | 55021 |
| | 2-1/2" | 55022 |
| | 3" | 55023 |
| | 3-1/2" | 55024 |
| | 4" | 55025 |
| | 5" | 55026 |
| | 6" | 55027 |
| | 7" | 57254 |
| | 8" | 55028 |
| 9" | 55029 | |
| 10" | 55030 | |
| 12" | 55031 | |

| 498 Low Carbon Precision Ground Flat Stock | | | |
|--|--------|------------|-------|
| Thickness | Width | 24" Length | |
| 7/8" | 7/8" | 55032 | |
| | 1" | 55033 | |
| | 1-1/4" | 55034 | |
| | 1-1/2" | 55035 | |
| | 2" | 55036 | |
| | 2-1/2" | 55037 | |
| | 3" | 55038 | |
| 1" | 3-1/2" | 57255 | |
| | 4" | 55039 | |
| | 6" | 55040 | |
| | 1" | 55041 | |
| | 1-1/4" | 55042 | |
| | 1-1/2" | 55043 | |
| | 2" | 55044 | |
| 1-1/8" | 2-1/2" | 55045 | |
| | 3" | 55046 | |
| | 3-1/2" | 55047 | |
| | 4" | 55048 | |
| | 5" | 55049 | |
| | 6" | 55050 | |
| | 7" | 57256 | |
| 1-1/4" | 8" | 55051 | |
| | 9" | 55052 | |
| | 10" | 55053 | |
| | 12" | 55054 | |
| | 1-1/8" | 1-1/8" | 58288 |
| | 1-1/4" | 1-1/4" | 55055 |
| | 1-1/2" | 1-1/2" | 55056 |
| 1-1/2" | 2" | 55057 | |
| | 2-1/2" | 55058 | |
| | 3" | 55059 | |
| | 4" | 55060 | |
| | 5" | 55061 | |
| | 6" | 55062 | |
| | 8" | 55063 | |
| 2" | 10" | 55065 | |
| | 12" | 57257 | |
| | 1-1/2" | 1-1/2" | 55066 |
| | 2" | 2" | 55067 |
| | 2-1/2" | 2-1/2" | 55068 |
| | 3" | 3" | 55069 |
| | 3-1/2" | 3-1/2" | 55070 |
| 2-1/2" | 4" | 55071 | |
| | 5" | 55072 | |
| | 6" | 55073 | |
| | 8" | 55074 | |
| | 10" | 55075 | |
| | 2" | 2" | 55076 |
| | 2-1/2" | 2-1/2" | 58289 |

FLAT STOCK AND DRILL ROD

Sizes other than listed priced on application



Check out our website for interactive features at starrett.com



PRECISION DRILL ROD

O1 480 PRECISION GROUND AND POLISHED DRILL ROD

AISI/SAE O1 is a general purpose tool steel with good wear resistance, toughness and machinability.

| Tolerances | | |
|----------------------|----------|-----------|
| Size Range | Diameter | Length |
| .124" round and less | ± .0003" | + 1/8"- 0 |
| .125" to .499" | ± .0005" | + 1/8"- 0 |
| .500" to 2" | ± .0010" | + 1/8"- 0 |

NOMINAL ANALYSIS (AISI O1)

| | |
|-----------------|------|
| Carbon | .90 |
| Chromium | .50 |
| Manganese | 1.20 |
| Tungsten | .50 |
| Vanadium | .20 |



Heat Treatment and Tempering Data available upon request

O1 480 PRECISION GROUND AND POLISHED DRILL ROD

| Letter Sizes | | | Number Sizes | | | Number Sizes | | |
|--------------|---------|------------|--------------|---------|------------|--------------|---------|------------|
| Diameter | Decimal | 36" Length | Diameter | Decimal | 36" Length | Diameter | Decimal | 36" Length |
| A | 0.2340 | 68201 | 52 | 0.0630 | 68251 | 26 | 0.1460 | 68277 |
| B | 0.2380 | 68202 | 51 | 0.0660 | 68252 | 25 | 0.1480 | 68278 |
| C | 0.2420 | 68203 | 50 | 0.0690 | 68253 | 24 | 0.1510 | 68279 |
| D | 0.2460 | 68204 | 49 | 0.0720 | 68254 | 23 | 0.1530 | 68280 |
| E | 0.2500 | 68205 | 48 | 0.0750 | 68255 | 22 | 0.1550 | 68281 |
| F | 0.2570 | 68206 | 47 | 0.0770 | 68256 | 21 | 0.1570 | 68282 |
| G | 0.2610 | 68207 | 46 | 0.0790 | 68257 | 20 | 0.1610 | 68283 |
| H | 0.2660 | 68208 | 45 | 0.0810 | 68258 | 19 | 0.1640 | 68284 |
| I | 0.2720 | 68209 | 44 | 0.0850 | 68259 | 18 | 0.1680 | 68285 |
| J | 0.2770 | 68210 | 43 | 0.0880 | 68260 | 17 | 0.1720 | 68286 |
| K | 0.2810 | 68211 | 42 | 0.0920 | 68261 | 16 | 0.1750 | 68287 |
| L | 0.2900 | 68212 | 41 | 0.0950 | 68262 | 15 | 0.1780 | 68288 |
| M | 0.2950 | 68213 | 40 | 0.0970 | 68263 | 14 | 0.1800 | 68289 |
| N | 0.3020 | 68214 | 39 | 0.0990 | 68264 | 13 | 0.1820 | 68290 |
| O | 0.3160 | 68215 | 38 | 0.1010 | 68265 | 12 | 0.1850 | 68291 |
| P | 0.3230 | 68216 | 37 | 0.1030 | 68266 | 11 | 0.1880 | 68292 |
| Q | 0.3320 | 68217 | 36 | 0.1060 | 68267 | 10 | 0.1910 | 68293 |
| R | 0.3390 | 68218 | 35 | 0.1080 | 68268 | 9 | 0.1940 | 68294 |
| S | 0.3480 | 68219 | 34 | 0.1100 | 68269 | 8 | 0.1970 | 68295 |
| T | 0.3580 | 68220 | 33 | 0.1120 | 68270 | 7 | 0.1990 | 68296 |
| U | 0.3680 | 68221 | 32 | 0.1150 | 68271 | 6 | 0.2010 | 68297 |
| V | 0.3770 | 68222 | 31 | 0.1200 | 68272 | 5 | 0.2040 | 68298 |
| W | 0.3860 | 68223 | 30 | 0.1270 | 68273 | 4 | 0.2070 | 68299 |
| X | 0.3970 | 68224 | 29 | 0.1340 | 68274 | 3 | 0.2120 | 68300 |
| Y | 0.4040 | 68225 | 28 | 0.1390 | 68275 | 2 | 0.2190 | 68301 |
| Z | 0.4130 | 68226 | 27 | 0.1430 | 68276 | 1 | 0.2270 | 68302 |

Sizes other than listed priced on application



530

Starrett®



O1 480 PRECISION GROUND AND POLISHED DRILL ROD

| Fractional Sizes | | |
|------------------|---------|-----------|
| Diameter | | |
| Inch | Decimal | 36 Length |
| 1/16 | 0.0625 | 68303 |
| 5/64 | 0.0781 | 68304 |
| 3/32 | 0.0938 | 68305 |
| 7/64 | 0.1094 | 68306 |
| 1/8 | 0.1250 | 68307 |
| 9/64 | 0.1406 | 68308 |
| 5/32 | 0.1563 | 68309 |
| 11/64 | 0.1719 | 68310 |
| 3/16 | 0.1875 | 68311 |
| 13/64 | 0.2031 | 68312 |
| 7/32 | 0.2188 | 68313 |
| 15/64 | 0.2344 | 68314 |
| 1/4 | 0.2500 | 68315 |
| 17/64 | 0.2656 | 68316 |
| 9/32 | 0.2813 | 68317 |
| 19/64 | 0.2969 | 68318 |
| 5/16 | 0.3125 | 68319 |
| 21/64 | 0.3281 | 68320 |
| 11/32 | 0.3438 | 68321 |
| 23/64 | 0.3594 | 68322 |
| 3/8 | 0.3750 | 68323 |
| 25/64 | 0.3906 | 68324 |
| 13/32 | 0.4063 | 68325 |
| 27/64 | 0.4219 | 68326 |
| 7/16 | 0.4375 | 68327 |
| 29/64 | 0.4531 | 68328 |
| 15/32 | 0.4688 | 68329 |
| 31/64 | 0.4844 | 68330 |
| 1/2 | 0.5000 | 68331 |
| 33/64 | 0.5156 | 68332 |
| 17/32 | 0.5313 | 68333 |
| 35/64 | 0.5469 | 68334 |
| 9/16 | 0.5625 | 68335 |
| 37/64 | 0.5781 | 68336 |
| 19/32 | 0.5938 | 68337 |
| 39/64 | 0.6094 | 68338 |
| 5/8 | 0.6250 | 68339 |
| 41/64 | 0.6406 | 68340 |
| 21/32 | 0.6563 | 68341 |
| 43/64 | 0.6719 | 68342 |
| 11/16 | 0.6875 | 68343 |
| 45/64 | 0.7031 | 68344 |
| 23/32 | 0.7188 | 68345 |
| 47/64 | 0.7344 | 68346 |
| 3/4 | 0.7500 | 68347 |
| 49/64 | 0.7656 | 68348 |
| 25/32 | 0.7813 | 68349 |
| 51/64 | 0.7969 | 68350 |
| 13/16 | 0.8125 | 68351 |
| 53/64 | 0.8281 | 68352 |
| 27/32 | 0.8438 | 68353 |

| Fractional Sizes | | |
|------------------|---------|-----------|
| Diameter | | |
| Inch | Decimal | 36 Length |
| 55/64 | 0.8594 | 68354 |
| 7/8 | 0.8750 | 68355 |
| 57/64 | 0.8906 | 68356 |
| 29/32 | 0.9063 | 68357 |
| 59/64 | 0.9219 | 68358 |
| 15/16 | 0.9375 | 68359 |
| 61/64 | 0.9531 | 68360 |
| 31/32 | 0.9688 | 68361 |
| 63/64 | 0.9844 | 68362 |
| 1 | 1.0000 | 68363 |
| 1-1/64 | 1.0156 | 68364 |
| 1-1/32 | 1.0313 | 68365 |
| 1-3/64 | 1.0469 | 68366 |
| 1-1/16 | 1.0625 | 68367 |
| 1-5/64 | 1.0781 | 68368 |
| 1-3/32 | 1.0938 | 68369 |
| 1-7/64 | 1.1094 | 68370 |
| 1-1/8 | 1.1250 | 68371 |
| 1-9/64 | 1.1406 | 68372 |
| 1-5/32 | 1.1563 | 68373 |
| 1-11/64 | 1.1719 | 68374 |
| 1-3/16 | 1.1875 | 68375 |
| 1-13/64 | 1.2031 | 68376 |
| 1-7/32 | 1.2188 | 68377 |
| 1-15/64 | 1.2344 | 68378 |
| 1-1/4 | 1.2500 | 68379 |
| 1-17/64 | 1.2656 | 68380 |
| 1-9/32 | 1.2813 | 68381 |
| 1-19/64 | 1.2969 | 68382 |
| 1-5/16 | 1.3125 | 68383 |
| 1-21/64 | 1.3281 | 68384 |
| 1-11/32 | 1.3438 | 68385 |
| 1-23/64 | 1.3594 | 68386 |
| 1-3/8 | 1.3750 | 68387 |
| 1-25/64 | 1.3906 | 68388 |
| 1-13/32 | 1.4063 | 68389 |
| 1-27/64 | 1.4219 | 68390 |
| 1-7/16 | 1.4375 | 68391 |
| 1-29/64 | 1.4531 | 68392 |
| 1-15/32 | 1.4688 | 68393 |
| 1-31/64 | 1.4844 | 68394 |
| 1-1/2 | 1.5000 | 68395 |
| 1-9/16 | 1.5625 | 68396 |
| 1-5/8 | 1.6250 | 68397 |
| 1-11/16 | 1.6875 | 68398 |
| 1-3/4 | 1.7500 | 68399 |
| 1-13/16 | 1.8125 | 68400 |
| 1-7/8 | 1.8750 | 68401 |
| 1-15/16 | 1.9375 | 68402 |
| 2 | 2.0000 | 68403 |

| Metric Sizes | | |
|--------------|---------|------------|
| Diameter | | |
| mm | Decimal | 36" Length |
| 2 | 0.0787 | 68227 |
| 3 | 0.1181 | 68228 |
| 4 | 0.1575 | 68229 |
| 5 | 0.1969 | 68230 |
| 6 | 0.2362 | 68231 |
| 7 | 0.2756 | 68232 |
| 8 | 0.3150 | 68233 |
| 9 | 0.3543 | 68234 |
| 10 | 0.3937 | 68235 |
| 11 | 0.4331 | 68236 |
| 12 | 0.4724 | 68237 |
| 13 | 0.5118 | 68238 |
| 14 | 0.5512 | 68239 |
| 15 | 0.5906 | 68240 |
| 16 | 0.6299 | 68241 |
| 17 | 0.6693 | 68242 |
| 18 | 0.7087 | 68243 |
| 19 | 0.7480 | 68244 |
| 20 | 0.7874 | 68245 |
| 21 | 0.8268 | 68246 |
| 22 | 0.8661 | 68247 |
| 23 | 0.9055 | 68248 |
| 24 | 0.9449 | 68249 |
| 25 | 0.9843 | 68250 |

FLAT STOCK AND DRILL ROD

Sizes other than listed priced on application



Check out our website for interactive features at starrett.com



PRECISION DRILL ROD

W1 481 PRECISION GROUND AND POLISHED DRILL ROD

AISI/SAE W1 is a versatile and less expensive tool steel that has superior machinability and maintains good wear resistance and toughness characteristics.

| Tolerances | | |
|----------------------|----------|------------|
| Size Range | Diameter | Length |
| .124" round and less | ± .0003" | + 1/8" - 0 |
| .125" to .499" | ± .0005" | + 1/8" - 0 |
| .500" to 2" | ± .0010" | + 1/8" - 0 |

NOMINAL ANALYSIS (AISI W1)

| | |
|-----------------|----------|
| Carbon | .90-1.05 |
| Manganese | .30-.50 |



Heat Treatment and Tempering Data available upon request

W1 481 PRECISION GROUND AND POLISHED DRILL ROD

| Letter Sizes | | | Number Sizes | | | Number Sizes | | |
|--------------|---------|------------|--------------|---------|------------|--------------|---------|------------|
| Diameter | Decimal | 36" Length | Diameter | Decimal | 36" Length | Diameter | Decimal | 36" Length |
| A | 0.2340 | 68404 | 52 | 0.0630 | 68430 | 26 | 0.1460 | 68456 |
| B | 0.2380 | 68405 | 51 | 0.0660 | 68431 | 25 | 0.1480 | 68457 |
| C | 0.2420 | 68406 | 50 | 0.0690 | 68432 | 24 | 0.1510 | 68458 |
| D | 0.2460 | 68407 | 49 | 0.0720 | 68433 | 23 | 0.1530 | 68459 |
| E | 0.2500 | 68408 | 48 | 0.0750 | 68434 | 22 | 0.1550 | 68460 |
| F | 0.2570 | 68409 | 47 | 0.0770 | 68435 | 21 | 0.1570 | 68461 |
| G | 0.2610 | 68410 | 46 | 0.0790 | 68436 | 20 | 0.1610 | 68462 |
| H | 0.2660 | 68411 | 45 | 0.0810 | 68437 | 19 | 0.1640 | 68463 |
| I | 0.2720 | 68412 | 44 | 0.0850 | 68438 | 18 | 0.1680 | 68464 |
| J | 0.2770 | 68413 | 43 | 0.0880 | 68439 | 17 | 0.1720 | 68465 |
| K | 0.2810 | 68414 | 42 | 0.0920 | 68440 | 16 | 0.1750 | 68466 |
| L | 0.2900 | 68415 | 41 | 0.0950 | 68441 | 15 | 0.1780 | 68467 |
| M | 0.2950 | 68416 | 40 | 0.0970 | 68442 | 14 | 0.1800 | 68468 |
| N | 0.3020 | 68417 | 39 | 0.0990 | 68443 | 13 | 0.1820 | 68469 |
| O | 0.3160 | 68418 | 38 | 0.1010 | 68444 | 12 | 0.1850 | 68470 |
| P | 0.3230 | 68419 | 37 | 0.1030 | 68445 | 11 | 0.1880 | 68471 |
| Q | 0.3320 | 68420 | 36 | 0.1060 | 68446 | 10 | 0.1910 | 68472 |
| R | 0.3390 | 68421 | 35 | 0.1080 | 68447 | 9 | 0.1940 | 68473 |
| S | 0.3480 | 68422 | 34 | 0.1100 | 68448 | 8 | 0.1970 | 68474 |
| T | 0.3580 | 68423 | 33 | 0.1120 | 68449 | 7 | 0.1990 | 68475 |
| U | 0.3680 | 68424 | 32 | 0.1150 | 68450 | 6 | 0.2010 | 68476 |
| V | 0.3770 | 68425 | 31 | 0.1200 | 68451 | 5 | 0.2040 | 68477 |
| W | 0.3860 | 68426 | 30 | 0.1270 | 68452 | 4 | 0.2070 | 68478 |
| X | 0.3970 | 68427 | 29 | 0.1340 | 68453 | 3 | 0.2120 | 68479 |
| Y | 0.4040 | 68428 | 28 | 0.1390 | 68454 | 2 | 0.2190 | 68480 |
| Z | 0.4130 | 68429 | 27 | 0.1430 | 68455 | 1 | 0.2270 | 68481 |

Sizes other than listed priced on application



532

Starrett



W1 481 PRECISION GROUND AND POLISHED DRILL ROD

| Fractional Sizes | | |
|------------------|---------|------------|
| Diameter | | 36" Length |
| Inch | Decimal | |
| 1/16 | 0.0625 | 68482 |
| 5/64 | 0.0781 | 68483 |
| 3/32 | 0.0938 | 68484 |
| 7/64 | 0.1094 | 68485 |
| 1/8 | 0.1250 | 68486 |
| 9/64 | 0.1406 | 68487 |
| 5/32 | 0.1563 | 68488 |
| 11/64 | 0.1719 | 68489 |
| 3/16 | 0.1875 | 68490 |
| 13/64 | 0.2031 | 68491 |
| 7/32 | 0.2188 | 68492 |
| 15/64 | 0.2344 | 68493 |
| 1/4 | 0.2500 | 68494 |
| 17/64 | 0.2656 | 68495 |
| 9/32 | 0.2813 | 68496 |
| 19/64 | 0.2969 | 68497 |
| 5/16 | 0.3125 | 68498 |
| 21/64 | 0.3281 | 68499 |
| 11/32 | 0.3438 | 68500 |
| 23/64 | 0.3594 | 68501 |
| 3/8 | 0.3750 | 68502 |
| 25/64 | 0.3906 | 68503 |
| 13/32 | 0.4063 | 68504 |
| 27/64 | 0.4219 | 68505 |
| 7/16 | 0.4375 | 68506 |
| 29/64 | 0.4531 | 68507 |
| 15/32 | 0.4688 | 68508 |
| 31/64 | 0.4844 | 68509 |
| 1/2 | 0.5000 | 68510 |
| 33/64 | 0.5156 | 68511 |
| 17/32 | 0.5313 | 68512 |
| 35/64 | 0.5469 | 68513 |
| 9/16 | 0.5625 | 68514 |
| 37/64 | 0.5781 | 68515 |
| 19/32 | 0.5938 | 68516 |
| 39/64 | 0.6094 | 68517 |
| 5/8 | 0.6250 | 68518 |
| 41/64 | 0.6406 | 68519 |
| 21/32 | 0.6563 | 68520 |
| 43/64 | 0.6719 | 68521 |
| 11/16 | 0.6875 | 68522 |
| 45/64 | 0.7031 | 68523 |
| 23/32 | 0.7188 | 68524 |
| 47/64 | 0.7344 | 68525 |
| 3/4 | 0.7500 | 68526 |
| 49/64 | 0.7656 | 68527 |
| 25/32 | 0.7813 | 68528 |
| 51/64 | 0.7969 | 68529 |
| 13/16 | 0.8125 | 68530 |
| 53/64 | 0.8281 | 68531 |

| Fractional Sizes | | |
|------------------|---------|------------|
| Diameter | | 36" Length |
| Inch | Decimal | |
| 27/32 | 0.8438 | 68532 |
| 55/64 | 0.8594 | 68533 |
| 7/8 | 0.8750 | 68534 |
| 57/64 | 0.8906 | 68535 |
| 29/32 | 0.9063 | 68536 |
| 59/64 | 0.9219 | 68537 |
| 15/16 | 0.9375 | 68538 |
| 61/64 | 0.9531 | 68539 |
| 31/32 | 0.9688 | 68540 |
| 63/64 | 0.9844 | 68541 |
| 1 | 1.0000 | 68542 |
| 1-1/64 | 1.0156 | 68543 |
| 1-1/32 | 1.0313 | 68544 |
| 1-3/64 | 1.0469 | 68545 |
| 1-1/16 | 1.0625 | 68546 |
| 1-5/64 | 1.0781 | 68547 |
| 1-3/32 | 1.0938 | 68548 |
| 1-7/64 | 1.1094 | 68549 |
| 1-1/8 | 1.1250 | 68550 |
| 1-9/64 | 1.1406 | 68551 |
| 1-5/32 | 1.1563 | 68552 |
| 1-11/64 | 1.1719 | 68553 |
| 1-3/16 | 1.1875 | 68554 |
| 1-13/64 | 1.2031 | 68555 |
| 1-15/64 | 1.2344 | 68557 |
| 1-1/4 | 1.2500 | 68558 |
| 1-17/64 | 1.2656 | 68559 |
| 1-9/32 | 1.2813 | 68560 |
| 1-19/64 | 1.2969 | 68561 |
| 1-5/16 | 1.3125 | 68562 |
| 1-21/64 | 1.3281 | 68563 |
| 1-11/32 | 1.3438 | 68564 |
| 1-23/64 | 1.3594 | 68565 |
| 1-3/8 | 1.3750 | 68566 |
| 1-25/64 | 1.3906 | 68567 |
| 1-13/32 | 1.4063 | 68568 |
| 1-27/64 | 1.4219 | 68569 |
| 1-7/16 | 1.4375 | 68570 |
| 1-29/64 | 1.4531 | 68571 |
| 1-15/32 | 1.4688 | 68572 |
| 1-31/64 | 1.4844 | 68573 |
| 1-1/2 | 1.5000 | 68574 |
| 1-9/16 | 1.5625 | 68575 |
| 1-5/8 | 1.6250 | 68576 |
| 1-11/16 | 1.6875 | 68577 |
| 1-3/4 | 1.7500 | 68578 |
| 1-13/16 | 1.8125 | 68579 |
| 1-7/8 | 1.8750 | 68580 |
| 1-15/16 | 1.9375 | 68581 |
| 2 | 2.0000 | 68582 |

Sizes other than listed priced on application



Check out our website for interactive features at starrett.com

533



FLAT STOCK AND DRILL ROD

PRECISION DRILL ROD

A2 482 PRECISION GROUND AND POLISHED DRILL ROD

AISI/SAE A2 is a more highly alloyed tool steel that provides excellent wear resistance and toughness and good machinability.

| Tolerances | | |
|----------------------|----------|------------|
| Size Range | Diameter | Length |
| .124" round and less | ± .0003" | + 1/8" - 0 |
| .125" to .499" | ± .0005" | + 1/8" - 0 |
| .500" to 2" | ± .0010" | + 1/8" - 0 |

NOMINAL ANALYSIS (AISI A2)

| | |
|------------------|------|
| Carbon | 1.00 |
| Chromium | 5.25 |
| Manganese | .60 |
| Molybdenum | 1.00 |
| Silicon | .40 |
| Vanadium | .25 |



Heat Treatment and Tempering Data available upon request

A2 482 PRECISION GROUND AND POLISHED DRILL ROD

| Fractional Sizes | | |
|------------------|---------|------------|
| Diameter | | 36" Length |
| Inch | Decimal | |
| 1/16 | 0.0625 | 68662 |
| 5/64 | 0.0781 | 68663 |
| 3/32 | 0.0938 | 68664 |
| 7/64 | 0.1094 | 68665 |
| 1/8 | 0.1250 | 68583 |
| 9/64 | 0.1406 | 68666 |
| 5/32 | 0.1563 | 68631 |
| 11/64 | 0.1719 | 68667 |
| 3/16 | 0.1875 | 68584 |
| 13/64 | 0.2031 | 68668 |
| 7/32 | 0.2188 | 68632 |
| 15/64 | 0.2344 | 68669 |
| 1/4 | 0.2500 | 68585 |
| 17/64 | 0.2656 | 68670 |
| 9/32 | 0.2813 | 68633 |
| 19/64 | 0.2969 | 68671 |
| 5/16 | 0.3125 | 68586 |
| 21/64 | 0.3281 | 68672 |
| 11/32 | 0.3438 | 68634 |
| 23/64 | 0.3594 | 68673 |
| 3/8 | 0.3750 | 68587 |
| 25/64 | 0.3906 | 68674 |
| 13/32 | 0.4063 | 68675 |
| 27/64 | 0.4219 | 68676 |

| Fractional Sizes | | |
|------------------|---------|------------|
| Diameter | | 36" Length |
| Inch | Decimal | |
| 7/16 | 0.4375 | 68588 |
| 29/64 | 0.4531 | 68677 |
| 15/32 | 0.4688 | 68678 |
| 31/64 | 0.4844 | 68679 |
| 1/2 | 0.5000 | 68589 |
| 17/32 | 0.5313 | 68680 |
| 9/16 | 0.5625 | 68590 |
| 19/32 | 0.5938 | 68681 |
| 5/8 | 0.6250 | 68591 |
| 21/32 | 0.6563 | 68682 |
| 11/16 | 0.6875 | 68592 |
| 23/32 | 0.7188 | 68683 |
| 3/4 | 0.7500 | 68593 |
| 13/16 | 0.8125 | 68594 |
| 7/8 | 0.8750 | 68595 |
| 15/16 | 0.9375 | 68684 |
| 1 | 1.0000 | 68596 |
| 11/16 | 1.0625 | 68685 |
| 1-1/8 | 1.1250 | 68597 |
| 1-1/4 | 1.2500 | 68598 |
| 13/8 | 1.3750 | 68686 |
| 1-1/2 | 1.5000 | 68599 |
| 13/4 | 1.7500 | 68687 |
| 2 | 2.0000 | 68688 |

Sizes other than listed priced on application

