

Chemical Compositions (%) (Typical)

Grade	A.I.S.I.	Carbon	Manganese	Silicon	Phosphorus (max)	Sulfur (max)	Chromium	Vandium	Tungsten	Molybdenum
PRESCO	O-1	.90/1.00	1.00/1.15	.20/.35	.020	.020	.40/.60	.08/.15	.45/.60	-
AIR-TRUE	A-2	.90/1.05	.40/.60	.20/.35	.025	.005	4.90/5.30	.15/.20	-	.90/1.10
SUPER-7	S-7	.48/.53	.50/.70	.20/.40	.025	.003	3.10/3.40	.20/.30	-	1.30/1.60
NUTEC 42	4142	.38/.46	.70/1.00	.15/.30	.035	.040	.80/1.15	.030 Max	-	.15/.25
ARISTOCRAT	D-2	1.50/1.60	.20/.40	.20/.60	.030	.020	11.25/12.00	.80/1.00	-	.70/.80
MARSHALLCRAT	C-1018	.15/.25	.60/.90	-	.040	.050	-	-	-	-
PREMAR 440C	440C	1.05	.40	.40	-	-	17.00	-	-	.40
PREMAR 410	410	.13	.05	.40	-	-	12.00	-	-	-
RUETOM SPECIAL 420 SS	420	.46	.40	.40	-	-	13.00	.30	-	-
FIRECHROME	H-13	.40	.40	1.00	.030	.030	5.00	1.00	-	1.20
WATERCRAT	W-1	.95/1.05	.30/.40	.10/.25	.025	.025	.15 Max	.10 Max	.15 Max	.10 Max

*C-1018 modified for sizes below 5/32". W-1 is cold drawn, not ground.

Specifications and Physical Properties

Grade	A.I.S.I.	UNS				Hardness		Machinability
		Designation	S.A.E.	A.S.T.M.	Federal	Brinell	Rockwell	
PRESCO	O-1	T31501	J-437	A-681-07	QQT-570 Rev. C.	177-212	Rb88-95	95
AIR-TRUE	A-2	T30102	J-437	A-681-07	QQT-570 Rev. C.	200-235	Rb93-99	65
SUPER-7	S-7	T41907	J-437	A-681-07	QQT-570 Rev. C.	188-223	Rb90-97	95
NUTEC 42	4142	G41420	-	A-322	-	261-321	Rc26-34	85
ARISTOCRAT	D-2	T30402	J-437	A-681-07	QQT-570 Rev. C.	220-255	Rb97-102	50
MARSHALLCRAT	C-1018	-	-	-	635	168 Max	Rb85 Max	78
PREMAR 440C	440C	-	-	-	-	229-269	Rc21-28	45
PREMAR 410	410	-	-	-	-	217	Rb96	54
RUETOM SPECIAL 420 SS	420	-	-	-	-	255	Rc25	45
FIRECHROME	H-13	-	-	A-681-07	-	230	Rb98	75
WATERCRAT	W-1	T72301	J-437	A-686-79	QQT-580 Rev. C.	200	Rb93	100

*C-1018 modified.

*Compared to 1.0% Carbon Tool Steel.

Tolerances

Thickness.....+/- .001"
 Thickness (Oversize).....+ .010/.015"
 Thickness (Metric).....+ .05mm/- .00
 Thickness 72" Nutec 4142.....+/- .002
 Width.....+ .000/.005
 Width (Oversize).....+ .010/.015"
 Width (Metric).....+ .2mm/- .0
 Squares (Regular).....+/- .001"
 Squares (Oversize).....+ .010/.015"

*Widths of more than 50mm are Blanchard ground.

Length 18".....+ .125/.250"
 Length 24".....+ .1875/.375"
 Length 24" Stainless.....+ .500/- .000
 Length 36".....+ .250/.500"
 Length 72" Nutec-42.....+ 1.000/- .000
 Length (Metric).....+ 5mm/+ 8mm
 Squareness Edge......003" per inch
 Squareness End......004" per inch
 (Regular and Oversize)

Please Order From:

Clark & Osborne, LLP
 Industrial Distributor
 6617 Ferguson Avenue
 Indianapolis, IN 46240

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 www.clarkandosborne.com

Size	Cold Drawn W-1	
	Standard Tolerance* (section)	Standard Tolerance (length)
1.000" through 0.750" (largest dim.)	±.0015"	+1/8", -.0"
0.749" through 0.250" (largest dim.)	±.001"	+1/8", -.0"
0.249" and smaller	±.0005"	+1/8", -.0"

*Closer tolerances than standard can be produced by request.