

## Chemical Compositions (%) (Typical)

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

\*C-1018 modified for sizes below 5/32".

## Specifications and Physical Properties

Grade	A.I.S.I.	UNS				Hardness		Machinability
		Designation	S.A.E.	A.S.T.M.	Federal	Brinell	Rockwell	
<b>PRESCO</b>	O-1	T31501	J-437	A-681-07	QQT-570 Rev. C.	177-212	Rb88-95	95
<b>AIR-TRUE</b>	A-2	T30102	J-437	A-681-07	QQT-570 Rev. C.	200-235	Rb94-99	65
<b>SUPER-7</b>	S-7	T41907	J-437	A-681-07	QQT-570 Rev. C.	188-223	Rb90-97	95
<b>NUTEC 42</b>	4142	G41420	-	A-322	-	261-321	Rc26-34	85
<b>ARISTOCRAT</b>	D-2	T30402	J-437	A-681-07	QQT-570 Rev. C.	220-255	Rb97-102	50
<b>MARSHALLCRAT</b>	C-1018	G10180	-	-	635	168 Max	Rb85 Max	-
<b>PREMAR 440C</b>	440C	S44004	440C	-	-	-	-	-
<b>PREMAR 410</b>	410	S41000	410	-	-	-	-	-
<b>RUETOM SPECIAL 420 SS</b>	420	S42000	420	-	-	-	-	-

\*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 round.

**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)