

Chemical Compositions (%) (Typical)

Grade	A.I.S.I.	Carbon	Maganese	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	-	-

*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	
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	Rb94-99	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	-
PREMAR 440C	440C	-	-	-	-	-	-	-
PREMAR 410	410	-	-	-	-	-	-	-
RUETOM SPECIAL 420 SS	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 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)