



PRECISION MARSHALL STEEL COMPANY
One Northpoint Court, Bolingbrook IL 60440
Toll Free: 1-800-258-2558 - www.pmsteel.com

GROUND FLAT TYPICAL MATERIAL CERTIFICATE

STANDARD INFORMATION

STANDARD CHEMICAL COMPOSITION

AISI / SAE	UNS	Carbon	Manganese	Silicon	Phosphorous (Max)	Sulfur (Max)	Chromium	Vanadium	Tungsten	Molybdenum
A2	T30102	.95/1.05	.40/.60	.20/.35	.025	.005	4.90/5.30	.15/.20	--	.90/1.10
O1	T31501	.90/1.00	1.00/1.15	.20/.35	.020	.020	.40/.60	.08/.15	.45/.60	--
S7	T41907	.48/.53	.50/.70	.20/.40	.035	.003	3.10/3.40	.20/.30	--	1.30/1.60
NT	G41420	.38/.46	.70/1.00	.15/.30	.035	.040	.80/1.15	.030 Max	--	.15/.25
D2	T30402	1.50/1.60	.20/.40	.20/.60	.030	.020	11.25/12.00	.80/1.00	--	.70/.80
LC	G10180	.15/.25	.60/.90	--	.040	.050	--	--	--	--
440C	S44004	1.05	.40	.40	--	--	17.00	--	--	.40
410	S41000	.13	.05	.40	--	--	12.00	-	--	--
420	S42000	.46	.40	.40	--	--	13.00	.30	--	--

SPECIFICATIONS

HARDNESS

MACHINABILITY

SURFACE TOLERANCE AND SQUARENESS

GRADE	AISI	SAE	ASTM	FEDERAL	BRINELL	RATING	Regular	Oversize
A2	A-2	J-437	A681-08	QQ-T-570 Rev.C	200-235	65	Thickness	+/- .001 +.010/+ .015
O1	O-1	J-437	A681-08	QQ-T-570 Rev.C	177-212	95	Width	+ .005/- .005 +.010/+ .015
S7	S-7	J-437	A681-08	QQ-T-570 Rev.C	188-223	95	Length 18	+ .125/+ .250 +.125/+ .250
NT	4142	--	A-322	--	261-321	85	Length 24	+ .1875/+ .375 +.1875/+ .375
D2	D-2	J-437	A681-08	QQ-T-570 Rev.C	220-255	50	Length 36	+ .250/+ .500 +.250/+ .500
LC	C-1018	--	A1018	635	168 MAX	--	Length 72	+ .250/+ .750 +.250/+ .750
440C	440C	--	276-17	QQ-S-763	--	--	Squares	+/- .001 +.010/+ .015
410	410	--	A240	QQ-S-763	--	--		
420	420	--	276-17	QQ-S-763	--	--		

All material RoHS Compliant

Precision Marshall Steel Company hereby attests that ground flat stock items as supplied have been tested and certified to meet all of the standards and limitations for ground flat stock as set forth above.

Certified: PM Support Services
Support Services

Date: 11/10/2020