



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

GROUND FLAT STOCK 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	--	A681-08	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