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

CERTIFICATION OF GROUND FLAT STOCK

PRODUCT INFORMATION

Grade	Thickness	Heat #	Country of Origin	Country of Melt	Purchase Order
D2	0.1350	PM20220	Germany	Germany	P1561567

CHEMICAL COMPOSITION

C: 1.5200 Mn: 0.4000 P: 0.0220 S: 0.0070 Si: 0.4400 Cr: 11.4000 Mo: 0.7400 V: 0.8100

STANDARD INFORMATION

**** All ground flat stock supplied by Precision Marshall Steel complies with DFARS requirements that state certain specialty metals must be melted and produced in the US or a qualifying country.**

STANDARD CHEMICAL COMPOSITION

AISI	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	.30 Max	.40/.60	--
S7	T41907	.48/.53	.50/.70	.20/.40	.035	.003	3.10/3.40	.20/.30	--	1.30/1.60
4140/42	G41420	.38/.46	.70/1.00	.15/.30	.035	.040	.80/1.15	-	--	.15/.25
D2	T30402	1.50/1.60	.20/.40	.20/.60	.030	.020	11.25/12.0	.80/1.00	--	.70/.80
C-1018	G10180	.15/.25	.60/.90	--	.040	.050	--	--	--	--
C-1018 (Under .250")		.03/.25	.90 Max	--	.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	--	--
M2	T11302	.78/1.05	.15/.40	.20/.45	.030	.030	.20/.45	1.75/2.20	5.50/6.75	4.50/5.50
H13	T20813	.32/.45	.20/.60	.80/1.25	.030	.030	4.75/5.5	.80/1.20	--	1.10/1.75

SPECIFICATIONS					HARDNESS	MACHINABILITY	CONDITION	SURFACE TOLERANCE AND SQUARENESS		
GRADE	AISI	SAE	ASTM	FEDERAL	BRINELL	RATING	Treatment		Regular (in)	Oversize (in)
A2	A-2	J-437	A681-08(2022)	QQ-T-570 Rev.C	200-235	65	Annealed	Thick. 18-36	+/-.001	+.010/+.015
O1	O-1	J-437	A681-08(2022)	QQ-T-570 Rev.C	177-212	95	Annealed	Thick. 72	+/-.002	
S7	S-7	J-437	A681-08(2022)	QQ-T-570 Rev.C	188-223	95	Annealed	Width	+.005/-.000	+.010/+.015
NT	4140/42	--	A-322 / A29	--	262-321	85	Prehard	Length 18	+.125/+.250	+.125/+.250
D2	D-2	J-437	A681-08(2022)	QQ-T-570 Rev.C	220-255	50	Annealed	Length 24	+.1875/+.375	+.1875/+.375
LC	C-1018	--	A1018	635	168 MAX	--	Annealed	Length 36	+.250/+.500	+.250/+.500
440C	440C	--	A276-17	QQ-S-763	--	--	Annealed	Length 72	+.250/+.750	+.250/+.750
410	410	--	A240	QQ-S-763	--	--	Annealed	Squares	+/-.001	+.010/+.015
420	420	--	A276-17	QQ-S-763	--	--	Annealed		Metric (mm)	
M2	M-2	--	A600-92a(2024)	QQ-T-590	255 MAX	--	Annealed	Thick.	+/- .0254	
H13	H13	J467	A681-08(2022)	QQ-T-570	235 MAX	75	Annealed	Length	+6.35 / +12.7	

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.

Material is RoHs, REACH, and Conflict Mineral compliant. The letter confirming compliance can be found on our website or distributor portal.

Certified: Adam Helphenstine
Support Services

Date: 1/20/2026