

ISC590W – IS 513 Part 2 (2016) – Weathering HSLA- Technical Datasheet

1. Chemical & Mechanical Properties

Property	Value
C (%)	≤0.12
Mn (%)	≤1.60
Si (%)	≤0.50
P (%)	≤0.030
S (%)	≤0.030
Al (%)	0.02-0.06
Ti (%)	≤0.15
Nb (%)	≤0.09
Cu (%)	0.25-0.40
Cr (%)	0.40-0.80
Yield Strength YS (MPa min)	590
Tensile Strength UTS (MPa min)	650
Elongation A80 (%) min	22

2. Equivalent / Alternative Grades

Gra	Stand	С%	Mn	Si	P%	S %	Al	Ti	Nb	Cu	Cr	UTS/
de	ard		%	%			%	%	%	%	%	YS
AST	ASTM	≤0.	≤1.	≤0.	≤0.0	≤0.0	0.0	≤0.	≤0.	0.2	0.4	YS
M	A1008	12	60	50	30	30	2-	15	09	5–	0-	590 /
Gr							0.0			0.4	0.8	UTS
590							6			0	0	650
EN	EN	≤0.	≤1.	≤0.	≤0.0	≤0.0	0.0	≤0.	≤0.	0.2	0.4	YS
Gr	10268	12	60	50	30	30	2-	15	09	5–	0-	590 /
590							0.0			0.4	0.8	UTS
							6			0	0	670
JFS	JFS	≤0.	≤1.	≤0.	≤0.0	≤0.0	0.0	≤0.	≤0.	0.2	0.4	YS
Gr	A2001	12	60	50	30	30	2-	15	09	5–	0-	590 /
590							0.0			0.4	0.8	UTS
							6			0	0	680

3. Common Applications

- Automotive structural parts
- High-strength formed panels

• Chassis components

4. Standard Conformance

Cold-reduced sheet/strip conforming to IS 513 Part 2 (2016).

5. Disclaimer

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