

ISC490W – 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)	490
Tensile Strength UTS (MPa min)	550
Elongation A80 (%) min	22

2. Equivalent / Alternative Grades

Grade	Standard	C%	Mn %	Si %	P%	S%	Al %	Ti %	Nb %	Cu %	Cr %	UTS/YS
ASTM Gr 490	ASTM A1008	≤0.12	≤1.60	≤0.50	≤0.030	≤0.030	0.02–0.06	≤0.15	≤0.09	0.25–0.40	0.40–0.80	YS 490 / UTS 550
EN Gr 490	EN 10268	≤0.12	≤1.60	≤0.50	≤0.030	≤0.030	0.02–0.06	≤0.15	≤0.09	0.25–0.40	0.40–0.80	YS 490 / UTS 570
JFS Gr 490	JFS A2001	≤0.12	≤1.60	≤0.50	≤0.030	≤0.030	0.02–0.06	≤0.15	≤0.09	0.25–0.40	0.40–0.80	YS 490 / UTS 580

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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