

BH270 – IS 513: Part 1 (2016) – Technical Datasheet

1. Chemical & Mechanical Properties

Property	Value
C (%)	≤ 0.02
Mn (%)	≤ 0.45
Si (%)	≤ 0.03
P (%)	≤ 0.025
S (%)	≤ 0.025
Al (%)	0.02 – 0.06
Ti (%)	≤ 0.15
Nb (%)	≤ 0.05
YS (MPa, min)	180 (as-supplied)
UTS (MPa, min)	310
BH (MPa)	≥ 20
El (%)	34

2. Equivalent / Alternative Grades

Grade	Standard	C%	Mn%	Si%	P%	S%	Al%	Ti%	Nb%	UTS/YS/El/BH
JIS BH180	JFS A2001	≤ 0.02	≤ 0.50	≤ 0.03	≤ 0.020	≤ 0.020	0.02 – 0.06	≤ 0.15	≤ 0.05	UTS 310 – 370; YS ≤ 210; El 34; BH ≥ 20
EN DX54D BH180	EN 10292	≤ 0.06	≤ 0.60	≤ 0.03	≤ 0.045	≤ 0.045	0.02 – 0.06	≤ 0.15	≤ 0.05	UTS 310 – 370; YS 170 – 210; El 34; BH ≥ 20
ASTM A1008 BH210	ASTM A1008	≤ 0.02	≤ 0.50	≤ 0.03	≤ 0.025	≤ 0.025	0.02 – 0.06	≤ 0.15	≤ 0.05	UTS 310 – 370; YS ≤ 210; El 34; BH ≥ 20

3. Common Applications

- Outer panels requiring dent resistance after paint bake

4. Standard Conformance

Cold-reduced sheets/strip conforming to IS 513 : Part 1 : 2016.

5. Disclaimer

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