

ISC450Y – IS 513 Part 2 (2016) – Dual-Phase – Technical Datasheet

1. Chemical & Mechanical Properties

Property	Value					
C (%)	≤0.10					
Mn (%)	≤2.00					
Si (%)	≤0.50					
P (%)	≤0.020					
S (%)	≤0.020					
Al (%)	0.02-0.06					
Ti (%)	≤0.15					
Nb (%)	≤0.09					
Cu (%)	_					
Cr (%)	_					
Yield Strength YS (MPa min)	450					
Tensile Strength UTS (MPa min)	510					
Elongation A80 (%) min	22					

2. Equivalent / Alternative Grades

Gra	Standa rd	С%	Mn	Si%	P%	S %	Al	Ti	Nb	Cu %	Cr %	UTS/ YS
de		-0	%	-0	-0.0	-0.0	%	%	%	90	90	
AST	ASTM	≤0.	≤2.	≤0.	≤0.0	≤0.0	0.0	≤0.	≤0.	_	_	YS
M Gr	A1008	10	00	50	20	20	2-	15	09			450 /
450							0.0					UTS
							6					510
EN	EN	≤0.	≤2.	≤0.	≤0.0	≤0.0	0.0	≤0.	≤0.	_	_	YS
Gr	10268	10	00	50	20	20	2-	15	09			450 /
450							0.0					UTS
							6					530
JFS	JFS	≤0.	≤2.	≤0.	≤0.0	≤0.0	0.0	≤0.	≤0.	_	_	YS
Gr	A2001	10	00	50	20	20	2-	15	09			450 /
450							0.0					UTS
							6					540

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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