

ISC590Y – 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)	590
Tensile Strength UTS (MPa min)	650
Elongation A80 (%) min	22

2. Equivalent / Alternative Grades

Gra de	Standa rd	С%	Mn %	Si%	Р%	S%	Al %	Ti %	Nb %	Cu %	Cr %	UTS/ YS
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			590 /
590							0.0					UTS
							6					650
EN	EN	≤0.	≤2.	≤0.	≤0.0	≤0.0	0.0	≤0.	≤0.	—	-	YS
Gr	10268	10	00	50	20	20	2–	15	09			590 /
590							0.0					UTS
							6					670
JFS	JFS	≤0.	≤2.	≤0.	≤0.0	≤0.0	0.0	≤0.	≤0.	_	_	YS
Gr	A2001	10	00	50	20	20	2–	15	09			590 /
590							0.0					UTS
							6					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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