

ISC1180YL – IS 513 Part 2 (2016) – Dual-Phase YL- 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
Yield Strength YS (MPa min)	1180
Tensile Strength UTS (MPa min)	1240
Elongation A80 (%) min	15

2. Equivalent / Alternative Grades

Grad	Standa	С%	Mn	Si%	P%	S%	Al%	Ti%	Nb	YS	UTS
e	rd		%						%	(MP	(MP
										a)	a)
AST	ASTM	≤0.1	≤2.0	≤0.5	≤0.02	≤0.02	0.02	≤0.1	≤0.0	1180	1240
M Gr	A1008	0	0	0	0	0	_	5	9		
1180							0.06				
EN	EN	≤0.1	≤2.0	≤0.5	≤0.02	≤0.02	0.02	≤0.1	≤0.0	1180	1260
Gr	10338	0	0	0	0	0	_	5	9		
1180							0.06				
JFS	JFS	≤0.1	≤2.0	≤0.5	≤0.02	≤0.02	0.02	≤0.1	≤0.0	1180	1270
Gr	A2001	0	0	0	0	0	_	5	9		
1180							0.06				

3. Common Applications

- Automotive safety members
- Energy absorbing components
- Crash structures

4. Standard Conformance

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

5. Disclaimer

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