

# ISC590T – IS 513 Part 2 (2016) – TRIP-Technical Datasheet

## 1. Chemical & Mechanical Properties

Property	Value
C (%)	≤0.25
Mn (%)	≤2.00
Si (%)	0.60-1.50
P (%)	≤0.020
S (%)	≤0.020
Al (%)	≤0.06
Ti (%)	≤0.15
Nb (%)	≤0.09
Yield Strength YS (MPa min)	590
Tensile Strength UTS (MPa min)	650
Elongation A80 (%) min	16

### 2. Equivalent / Alternative Grades

Grad e	Standa rd	C%	Mn %	Si%	P%	S%	Al%	Ti%	Nb %	UTS (MP a)	YS (MP a)
EN	EN	≤0.2	≤2.0	0.60	≤0.02	≤0.02	≤0.0	≤0.1	≤0.0	650	590
Gr	10338	5	0	_	0	0	6	5	9		
590				1.50							
AST	ASTM	≤0.2	≤2.0	0.60	≤0.02	≤0.02	≤0.0	≤0.1	≤0.0	670	590
M Gr	A1008	5	0	-	0	0	6	5	9		
590				1.50							
JFS	JFS	≤0.2	≤2.0	0.60	≤0.02	≤0.02	≤0.0	≤0.1	≤0.0	680	590
Gr	A2001	5	0	-	0	0	6	5	9		
590				1.50							

#### **3. Common Applications**

- Crash-relevant structural parts
- Strength/weight optimised panels

#### 4. Standard Conformance

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

# 5. Disclaimer

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