



**RAUNAQ**  
TRUSTED STEEL

# 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

Grade	Standard	C%	Mn %	Si%	P%	S%	Al %	Ti %	Nb %	Cu %	Cr %	UTS/YS
ASTM Gr 450	ASTM A1008	≤0.10	≤2.00	≤0.50	≤0.020	≤0.020	0.02–0.06	≤0.15	≤0.09	—	—	YS 450 / UTS 510
EN Gr 450	EN 10268	≤0.10	≤2.00	≤0.50	≤0.020	≤0.020	0.02–0.06	≤0.15	≤0.09	—	—	YS 450 / UTS 530
JFS Gr 450	JFS A2001	≤0.10	≤2.00	≤0.50	≤0.020	≤0.020	0.02–0.06	≤0.15	≤0.09	—	—	YS 450 / UTS 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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