

65C6 – IS 2507: 1975– Technical Datasheet

1. Chemical & Mechanical Properties

Property	Value / Range			
C (%)	0.60-0.70			
Mn (%)	0.60-0.90			
Si (%)	0.10-0.35			
S max (%)	0.050			
P max (%)	0.050			
Tensile Strength (MPa)	1 100 – 1 300			
Yield Strength (MPa)	≥ 950			
Hardness (HB)	300 - 380			
Elongation (%)	8			

2. Equivalent / Alternative Grades

Grade	Standard	С %	Mn %	Key Alloy	S % max	P % max	Typical σu / HB
SAE 1065	ASTM A29	0.60-0.70	0.60-0.90	Si ≤ 0.35	0.040	0.040	σu 770 – 930; HB 225 – 277
JIS S65C	JIS G 4051	0.62-0.68	0.60-0.90	Si ≤ 0.35	0.040	0.040	σu 785 – 930; HB 230 – 280
EN C67S (1.1231)	EN 10132-4	0.65-0.75	0.50-0.90	Si 0.10– 0.35	0.025	0.025	σu 780 – 980 (+LC); HB 220 – 290

3. Common Applications

- Engine valve springs
- High-stress flat springs

4. Standard Conformance

Cold-rolled spring-steel strip conforming to IS 2507 : 1975.

5. Disclaimer

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