

# 98C6 – IS 2507: 1975– Technical Datasheet

## 1. Chemical & Mechanical Properties

Property	Value / Range
C (%)	0.90–1.00
Mn (%)	0.30–0.60
Si (%)	0.10–0.35
S max (%)	0.050
P max (%)	0.050
Tensile Strength (MPa)	1 450 – 1 650
Yield Strength (MPa)	≥ 1 250
Hardness (HB)	380 – 460
Elongation (%)	4

## 2. Equivalent / Alternative Grades

Grade	Standard	C %	Mn %	Key Alloy	S % max	P % max	Typical $\sigma_u$ / HB
SAE 1095	ASTM A29	0.90–1.03	0.30–0.50	Si ≤ 0.35	0.040	0.040	$\sigma_u$ 1020 – 1260; HB 285 – 388
JIS SK95	JIS G 4401	0.90–1.00	0.30–0.50	Si ≤ 0.35	0.030	0.030	$\sigma_u$ 1050 – 1300; HB 300 – 400
EN C100S (1.1274)	EN 10132-4	0.95–1.05	0.30–0.60	Si 0.10–0.35	0.025	0.025	$\sigma_u$ 1100 – 1350 (+LC); HB 310 – 420

## 3. Common Applications

- Clock & spring band steel
- Friction & power-springs

#### 4. Standard Conformance

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

#### 5. Disclaimer

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