

MATERIAL DATA SHEET

Ref: HIL826M40

Issue: L0

Tel: 0114 233 1133

Title: 826M40 – 2.5% Nickel-Chromium-Molybdenum Through Hardening Steel

Material Specification: 826M40

Associated Standard: BS970-1: 1983

Supply Condition: Annealed
Quench and Tempered

Surface Conditions: As Rolled

DESCRIPTION

A 2.5% nickel-chromium-molybdenum through hardening steel which has a high hardenability and may be treated in relatively large section size to produce tensile strengths ranging from 850 to over 1550 N/mm² combined with good ductility and resistance to stock. Due to its high molybdenum content the steel may normally be tempered in the range 300-550C without serious loss of impact values. Good mechanical properties at low temperature can also be obtained.

TYPICAL APPLICATIONS

Undercarriages, aero-engine and air frame parts, heavy duty gears, pinion connecting rods, crank and differential shafts and other transmission parts, high strength bolts, and studs, electrical motor shafts, turbine discs, gas bottles, mandrel bars for tube manufacture, ordnance parts.

CHEMICAL ANALYSIS (including residual elements)

	C	Si	Mn	S	P	Cr	Ni	Mo	
Min	0.36	0.10	0.45			0.50	2.30	0.45	
Max	0.44	0.35	0.70	0.040	0.035	0.80	2.80	0.65	

MECHANICAL PROPERTIES (at room temperature)

Quenched and Tempered Material (≤ 250mm diameter)

	Yield N/mm ²	UTS N/mm ²	Elongation %	R of A %	Impacts (KCV) Joules	Hardness HB
Min	925	1075	11		22	311
Max		1225				375

Annealed Material

	Yield N/mm ²	UTS N/mm ²	Elongation %	R of A %	Impacts (KCV) Joules	Hardness HB
Min						277
Max						

EQUIVALENTS

- DIN 1.6745
- 40NiMoCr10-5

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M Lipman



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Whispering the Secrets of Language: An Emotional Quest through **Material Data Sheet Maraging Steel Ms1 Apworks**

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