

Steel 39NiCrMo3

36CrNiMo4 / 1.6511 / AISI 9840 / BS 817M37 / AFNOR 40NCD3 / UNE F1282

The 39NiCrMo3 alloy is a high-performance material offering exceptional strength, toughness, and wear resistance. Ideal for challenging applications.



Material properties

Density		7,85	g/cm ³
Tensile strength	ISO 6892	970	MPa
Elongation at break	ISO 6892	11	%
Yield strength	ISO 6892	735	MPa
Elastic modulus	ISO 6892	205	GPa
Resilience	ISO 148	30	kJ/m ²
Hardness	ISO 6508	250-285	HB
Melting temperature		1580	°C
Thermal conductivity (20°C)		46,6	W/mK
Electrical resistivity		0,234	Ωmm ² /m

Main alloy elements

Iron - Nickel - Chromium - Molybdenum

Maximum dimensions

300x300x120 mm (11.8x11.8x4.7 in)

Tolerances

ISO 2768-1 fine (f) or medium (m) class

Applications

This high-performance alloy is suitable for demanding applications, including gears, axles and heavy-duty machinery components.

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