

Steel 11SMnPb37

AVP / CF9SMn36 / 1.0737 / AFNOR S300 / UNE F2113

11SMnPb37 (1.0737) is a high-quality, non-alloyed free-cutting steel designed for machining applications like turning, milling, and drilling, commonly used for precision mechanical components, it offers excellent machinability, faster production, and a better surface finish on machined components.



Material properties

Density		7,7	g/cm ³
Tensile strength	ISO 6892	550	MPa
Elongation at break	ISO 6892	7	%
Yield strength	ISO 6892	440	MPa
Elastic modulus	ISO 6892	200	GPa
Hardness	ISO 6508	149-226	HB
Melting temperature		1370-1400	°C
Thermal conductivity (20°C)		16	W/mK
Electrical resistivity		0,7	Ωmm ² /m

Main alloy elements

Iron - Manganese - Lead

Maximum dimensions

150x150x500 mm (5.9x5.9x19.7 in)

Tolerances

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

Applications

Precision mechanical components requiring a high quality surface finish.

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