

# Steel 18NiCrMo5

17NiCrMo6-4 / 1.6566 / AISI 4317 / BS 815M17 / AFNOR 18NCD6

A perfect balance of strength, wear resistance and hardness. Ideal for automotive parts and heavy-duty machinery.



## Material properties

<b>Density</b>		<b>7,85</b>	g/cm <sup>3</sup>
<b>Tensile strength</b>	ISO 6892	<b>690</b>	MPa
<b>Elongation at break</b>	ISO 6892	<b>10</b>	%
<b>Yield strength</b>	ISO 6892	<b>835</b>	MPa
<b>Elastic modulus</b>	ISO 6892	<b>205</b>	GPa
<b>Resilience</b>	ISO 148	<b>205</b>	kJ/m <sup>2</sup>
<b>Hardness</b>	ISO 6508	<b>200-225</b>	HB
<b>Melting temperature</b>		<b>1435</b>	°C
<b>Thermal conductivity (20°C)</b>		<b>15</b>	W/mK
<b>Electrical resistivity</b>		<b>0,73</b>	Ωmm <sup>2</sup> /m

### Main alloy elements

Iron - Nickel - Chromium - Molybdenum

### Maximum dimensions

300x300x100 mm (11.8x11.8x3.9 in)

### Tolerances

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

### Applications

It offers a unique balance of properties that make it an excellent choice for various applications.

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