

## Injection Moulded Material Properties and Application Data

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<b>Material:</b>	martensitic, stainless steel	
<b>Grade:</b>	<b>AISI 430F, DIN X12CrMo17, W.Nr. 1.4104</b>	
<b>Nominal Composition, %:</b>	Cr	17
	Si	1.0
	Mn	1.25
	Mo	0.2-0.6
	C	0.12
	Fe	Rest

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<b>Typical properties</b>	<b>as sintered + quenched</b>	<b>quenched + tempered</b>
Density (g/cm <sup>3</sup> )	7.60	7.60
Annealing temperature (°C)		650-550
Hardness, HV	290	200-250
Elastic Modulus (GPa)	216	216
Elongation (%)	8	11
Tensile strength (MPa, N/mm <sup>2</sup> )	930	640-840
Yield strength (MPa, N/mm <sup>2</sup> )	600	450
Surface roughness	R <sub>a</sub> < 2	R <sub>a</sub> < 2

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### Uses, remarks

AISI 430F is applied for components which require high corrosion resistance and ferritic (magnetic) properties. This alloy is specially suited for solenoid valve components.