
MIM-Material Specification and Applications

Composition

Material: Austenitic stainless steel
Standards: AISI 316L, DIN X2CrNiMo17-13-2, 1.4404

Typical composition::	<i>Element</i>	<i>Content (%)</i>
	C	≤ 0.03
	Cr	16.0 – 18.0
	Ni	10.0 – 15.0
	Si	≤ 1.00
	Mn	≤ 1.00
	Mo	2.00 – 3.00
	Fe	Balance
	Other	-

Properties

	As sintered
Density	≥ 7.40 g/cm ³
Hardness	≥ 100 HV1
Yield strength R _{p0.2}	150 - 230 MPa
Tensile strength R _m	450 - 600 MPa
Elongation A	45 - 60 %
Surface quality R _a	≤ 1.6 μm

Application / remarks

Mechanical components requiring superior corrosion resistance, particularly in solutions containing chloride ions. Medical, dental and marine applications, as well as parts for business machines, valves and household appliances.

The data given are based on our experience to date. However, no liability can be assumed.