Parmaco Metal Injection Molding AG
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Parmaco
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MIM-Material Specification and Applications

Composition

Material: **Nickel-Iron, nickel alloyed steel**

Standards: **2%NiFe, FN02, Fe2Ni**

Typical composition::

Element	*Content (%)*
C	≤ 0.10
Ni	1.50 – 2.50
Mo	≤ 0.50
Fe	Balance
Other	-

Properties

	As sintered
Density	≥ 7.70 g/cm^3
Hardness	≥ 90 HV1
Yield strength $R_{p0.2}$	100 - 220 MPa
Tensile strength R_m	250 - 380 MPa
Elongation A	32 - 44 %
Surface quality R_a	≤ 1.6 µm

Application / remarks

Case hardened max. 750 HV (max. 62 HRC), EHT: 0.05 to 0.5 mm
Mechanical components requiring good strength fatigue resistance, and/or high surface hardness for textile, business machines, computer and appliance applications.