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## MIM-Material Specification and Applications

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### Composition

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

**Standards:** 7%NiFe, FN07, Fe7Ni

Typical composition::	<i>Element</i>	<i>Content (%)</i>
	C	≤ 0.10
	Ni	6.00 – 8.00
	Mo	≤ 0.50
	Fe	Balance
	Other	-

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### Properties

#### As sintered

Density	≥ 7.70 g/cm <sup>3</sup>
Hardness	≥ 100 HV1
Yield strength R <sub>p0.2</sub>	260 - 380 MPa
Tensile strength R <sub>m</sub>	380 - 500 MPa
Elongation A	25 - 35 %
Surface quality R <sub>a</sub>	≤ 1.6 μm

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### Application / remarks

Case hardened max. 700 HV (max. 60 HRC), EHT: 0.05 to 0.5 mm  
Mechanical components for gun parts, business machines, computer and appliance applications.