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Parmaco
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MIM-Material Specification and Applications

Composition

Material: **Austenitic stainless steel**

Standards: **AISI HK30, ~DIN X15CrNiSi2520, ~1.4841**

Typical composition::

Element	*Content (%)*
C	0.20 – 0.50
Cr	24.0 – 27.0
Ni	19.0 – 22.0
Si	0.75 – 1.30
Mn	≤ 1.50
Mo	0.20 – 0.30
Fe	Balance
Other	Nb: 1.00 – 1.75

Properties

Properties	**As sintered (N2)**	**As sintered (Ar)**
Density	≥ 7.50 g/cm^3	≥ 7.50 g/cm^3
Hardness	≥ 220 HV1	≥ 150 HV1
Yield strength $R_{p0.2}$	350 - 450 MPa	200 - 300 MPa
Tensile strength R_m	700 - 850 MPa	500 - 650 MPa
Elongation A	35 - 45%	35 - 45%
Surface quality R_a	≤ 3.2 µm	≤ 3.2 µm

Application / remarks

HK30 is a heat resistant austenitic stainless steel which is applied for components which work at high temperatures such as engine components and turbo charger components.