

Chemical Composition

Continuous control along the casting process are made to obtain the most homogeneous products free of impurities that would cause cracking and breakage.

- **Chrome** offers greater anti-corrosion properties and less wear.
- **Carbon** provides greater hardness.
- **Manganese** increases depth of hardening and improve strength and toughness provides greater resistance to impact.
- **Nickel** increases hardness and impact strength.
- **Silicon** avoids mechanical fatigue.

Material Classic

Analysis %

Mechanical properties (Room temperature 20°C)

C	Mn	Si	S	P	Cr	Mo	Ni	Re	Hardness	Impact strength V Notch
0.24-0.29	0.80-1.40	1.30-1.60	≤0.035	≤0.035	1.40-1.70	0.05-0.15	≤0.20	0.10-0.25	HRC45-50	akv≥18J/cm ²

Futura Alloy

Analysis %

Mechanical properties (Room temperature 20°C)

C	Mn	Si	S	P	Cr	Mo	Ni	Re	Hardness	Impact strength V Notch
0.25-0.31	0.50-1.10	1.00-1.40	≤0.035	≤0.035	1.40-1.80	≤0.3	≤0.30	0.10-0.25	HRC48-52	akv≥24J/cm²