



Steel

ADC88™

X36CrMoV5-2

Consumable electrode remelted steel

SPECIFICATIONS

EN: X36CrMoV5-2
AFNOR: X36CrMoV5-2
W.Nr: 1.2367 Mod
DIN: X36CrMoV5-2

PHYSICAL PROPERTIES

- Density: 7.7
- Mean coefficient of expansion in m/m.°C:
 - between 20°C and 100°C: 11.0×10^{-6}
 - between 20°C and 300°C: 11.8×10^{-6}
 - between 20°C and 500°C: 12.8×10^{-6}
 - between 20°C and 700°C: 13.4×10^{-6}
- Critical points:
 - Ac 1: 830°C
 - Ac 3: 885°C

COMPOSITION

Carbon	0.36
Chromium	5.10
Molybdenum	2.10
Vanadium	0.40

APPLICATIONS

- Dies for light alloy die casting.
- Tools for aluminum alloy extrusion.

CHARACTERISTICS

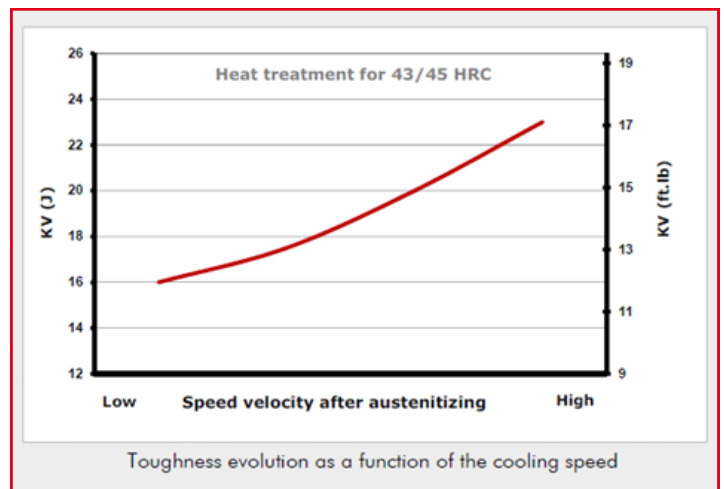
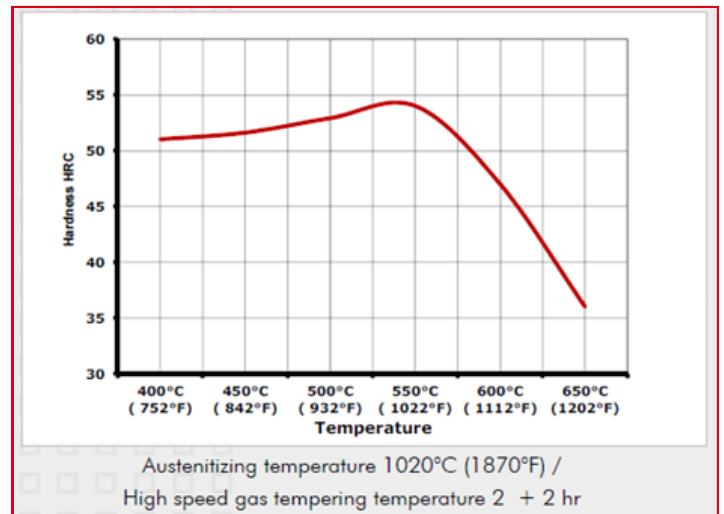
- High level of toughness
- Good resistance to high temperature oxidation
- Excellent thermal fatigue resistance

HEAT TREATMENT

- Preheat to 750°C (1380°F)
- Austenitizing temperature: 1000-1020°C (1830-1870°F)
- Quenching with inert gas under pressure
- Tempering three times recommended with the first at 550°C (1025°F) and then for the hardness and stress relieving

EVOLUTION OF

MECHANICAL PROPERTIES



Contact:

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