Cryodur C2110

Steel properties
- Wear resistant chromium-vanadium alloyed cold-work steel.

Standards
- AISI L2

Physical properties
- Coefficient of thermal expansion
  - 0°C: 20 – 100 20 – 300 20 – 400 20 – 500 20 – 600 20 – 700
  - 10°C/(m • K): 12.0, 13.7, 14.2, 14.9, 15.8, 16.8
- Thermal conductivity
  - 20°C: 34.2
  - 350°C: 32.6
  - 700°C: 31.0

Applications
- Piercing dies, guide rods, twist drills, ejector pins and wood chisels.

Heat treatment
- Soft annealing
  - Temperature: 710 – 750°C
  - Cooling: Furnace max.
- Stress-relief annealing
  - Temperature: 810 – 840°C
  - Cooling: Furnace
- Hardening
  - Temperature: 810 – 840°C
  - Cooling: Oil: < 15 mm Ø, Water: > 15 mm Ø
- Tempering
  - Temperature: 100 – 600°C

Cryodur C2235

Steel properties
- Special steel for woodworking, featuring a keen cutting edge.

Physical properties
- Coefficient of thermal expansion
  - 0°C: 3.90
  - 20°C/(m • K): 33.5
- Thermal conductivity
  - 20°C: 31.0

Applications
- Circular and gang saws, machine knives, cutting tools for wood and non-ferrous metals, pliers and wood chisels.

Heat treatment
- Soft annealing
  - Temperature: 680°C
  - Cooling: Furnace max.
- Stress-relief annealing
  - Temperature: approx. 650 – 680°C
  - Cooling: Furnace
- Hardening
  - Temperature: 810 – 840°C
  - Cooling: Oil
- Tempering
  - Temperature: 63 – 66

Reference numbers in brackets are not standardized in EN ISO 4957.