Cryodur

### Steel properties
Wear-resistant water-hardening steel with high insusceptibility to overheating.

### Physical properties
- **Thermal conductivity at °C**: 20 – 700
- **Coefficient of thermal expansion at °C**: 20 – 100

### Applications
- Cold heading dies, first and finish upsetting punches, cold stamps and dies for the manufacturing of screws, nuts and bolts, compression pistons.

### Heat treatment
- **Soft annealing °C**: 730 – 760
- **Stress-relief annealing °C**: 650 – 680
- **Hardening °C**: 780 – 820
- **Tempering °C**: 100 – 600

### Standards
- **AISI**: W10
- **AFNOR**: 90MV8

---

Cryodur

### Steel properties
Good cutting edge retention, dimensionally stable during heat treatment.

### Physical properties
- **Coefficient of thermal expansion at °C**: 20 – 700
- **Thermal conductivity at °C**: 20 – 350

### Applications
- Tool steel for universal use, cutting and stamping tools for sheet up to 6 mm thickness, thread-cutting tools, reamers, gauges, measuring tools, plastic moulds, shear blades, guide strips and ejector pins.

### Heat treatment
- **Soft annealing °C**: 730 – 760
- **Stress-relief annealing °C**: 650 – 680
- **Hardening °C**: 780 – 820
- **Tempering °C**: 100 – 600

---

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