Cryodur

Steel properties
High tensile special steel with good resistance to twisting.

Standards
AISI - S2

Applications
Screwdrivers, bits, low-stressed tools for the cutting, punching and folding of sheet.

Heat treatment
Soft annealing °C Cooling Hardness HB
700 – 750 Furnace max. 250

Stress-relief annealing °C Cooling
560 – 680 Furnace

Hardening °C Quenching Hardness after quenching HRC
840 – 860 Oil 64

Tempering °C HRC
640 – 680 64

Cryodur 2381

C 0.73 Si 1.20 Mn 0.50 Mo 0.55 V 0.20

Steel properties
12 % lacedeutitic chromium steel with very high wear resistance and cutting edge retention as well as improved hardenability in comparison to Cryodur 2080.

Standards
AISI - D6

Applications
Heavy-duty blanking dies for cutting transformer and dynamo sheets up to 2 mm thickness as well as for paper and plastics, deep-drawing tools, drawing dies and mandrels, shear blades, stone pressing tools.

Heat treatment
Soft annealing °C Cooling Hardness HB
700 – 750 Furnace max. 250

Stress-relief annealing °C Cooling
650 – 700 Furnace

Hardening °C Quenching Hardness after quenching HRC
840 – 860 Oil 64

Tempering °C HRC
640 – 680 64

Cryodur 2436

C 2.10 Si 0.35 Mn 0.35 Cr 12.00 W 0.70

Steel properties
Heavy-duty blanking dies for cutting transformer and dynamo sheets up to 2 mm thickness as well as for paper and plastics, deep-drawing tools, drawing dies and mandrels, shear blades, stone pressing tools.

Standards
AISI - D6

Applications
Heavy-duty blanking dies for cutting transformer and dynamo sheets up to 2 mm thickness as well as for paper and plastics, deep-drawing tools, drawing dies and mandrels, shear blades, stone pressing tools.

Heat treatment
Soft annealing °C Cooling Hardness HB
800 – 840 Furnace max. 250

Stress-relief annealing °C Cooling
650 – 700 Furnace

Hardening °C Quenching Hardness after quenching HRC
950 – 980 Oil 64

Tempering °C HRC
100 – 120 63

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