Breitenfeld Schmiedetechnik

TC-379

Material no. 1.2379 DIN X153CrMoV12 AISI D2

Chemical composition	C	Cr	Mo	V
Approximate values in %	1,55	11,50	0,70	1,00

Description and applications:

TC-379 is a steel with a special combination of toughness and wear resistance.

Applications: high-performance cutting tools, circular or flat thread rolling dies, shear blades, broaches, woodworking tools, drawing, deep drawing and extrusion tools, cold rolls, ...

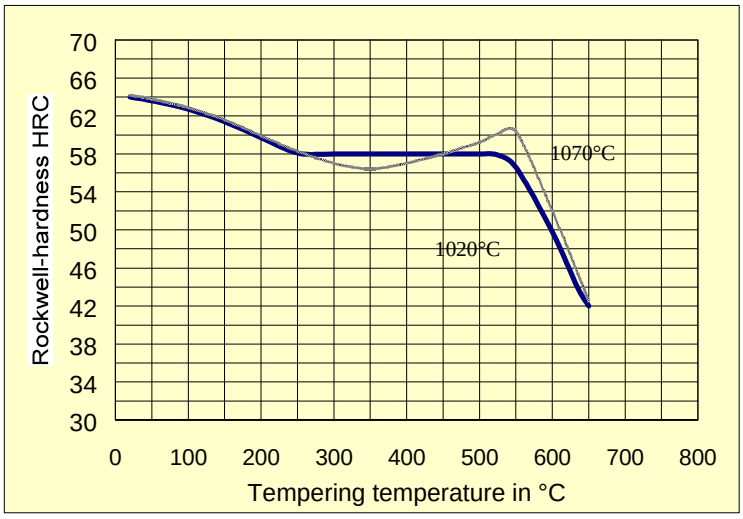
Bath nitriding is possible (Tenifer treatment)

Heat treatment:

Hot forming:	1050 – 850°C
Soft annealing:	830 – 850°C / 4 – 6 h
Brinell-hardness after annealing:	max. 255 HB
Stress relieving:	650°C
Preheating to hardening:	850°C
Hardening temperature:	1020 – 1050°C [1]) 1050 – 1070°C [2])
Quenching:	oil, dry air blast, warm bath (500 – 550°C)
Tempering:	180 – 250°C [1]) 550 – 570°C [2]) / 2x – 1 h / 25 mm
	[1]) Standard [2]) Tenifer-treatment

Tempering chart:

Hardening: 1020°C in oil (1070°C in oil)
Tempering: 1h, air cooling
Specimen size: ø 25x50 mm



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