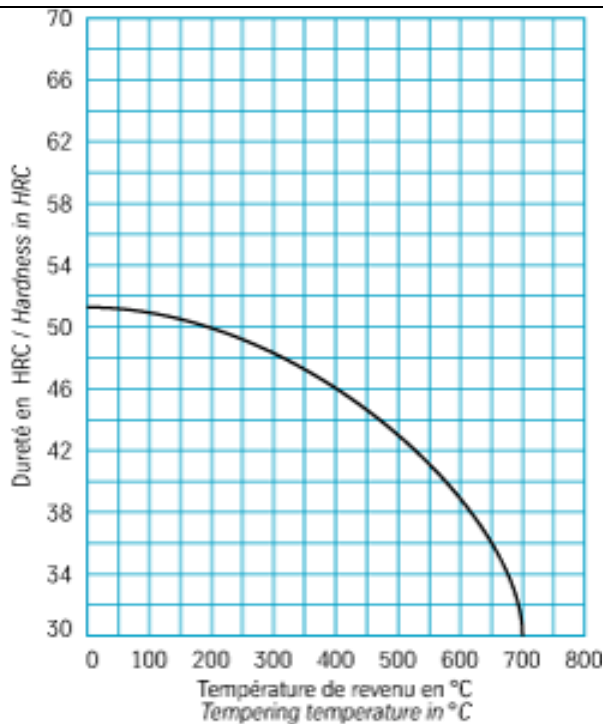


SSA2378

Trade Name	Technical Delivery Condition	Q & T Hardness	Typical Chemical Composition					
			C	Si	Mn	Cr	Mo	Ni
SSA2378	Quenched and Tempered	28 – 33 HRC	0.35 – 0.45	0.20 – 0.40	1.30 – 1.60	1.80 – 2.10	0.15 – 0.25	0.90 – 1.10

Werkstoff	DIN standard	AISI	BS	JIS	SIS	UNI
1.2378	40CrMnNiMo8-6-4	P20+Ni	-		-	-



Graph 1

Type of steel and characteristics:

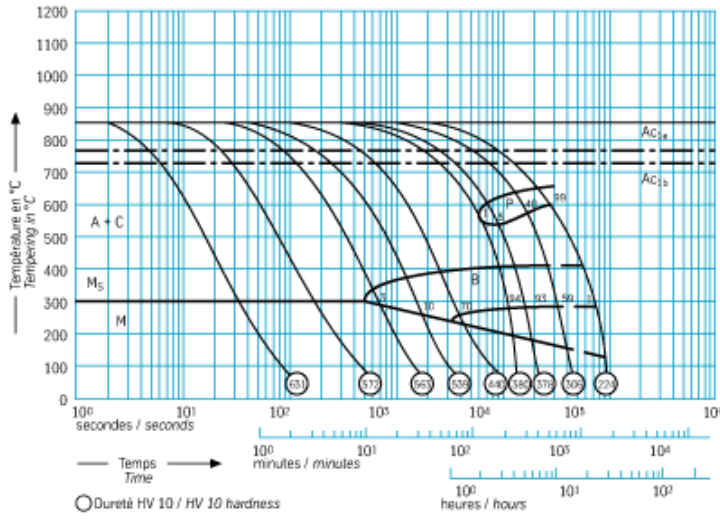
SSA2378 is pre-hardened grade specially designed for plastic mould industry. Chromium, Molybdenum, Manganese with addition of Nickel to enhance hardenability. The cleanliness of the steel makes the steel particularly well adapted for polishing or chemical etching.

Applications:

Mould, mould insert with no heat treatment required, good polishability, good machinability, good photoetching properties, high strength and high toughness. Guide ring, mounting plate, ejector plate, ejector pin and retainer plate. Gas and bath nitriding as well as case hardening are possible

Heat Treatment:

Hot Forging	1050 - 850°C.
Annealing	720 - 740°C
Stress relieving	650 - 700°C
Hardening	840 - 860°C in oil 860 - 880°C in air
Hardness obtainable	55 HRC
Tempering	Refer to Graph 1
Nitriding	



CTT Graph