

Plastic Mould Steel BM1.2083

1.2083 is a chromium alloyed stainless plastic mould steel. Characterised by a combination of toughness, corrosion resistance and the ability to reach uniform hardness throughout large cross-sections

W.No	1.2083
DIN	X40Cr14
AISI / SAE	420
JIS	-

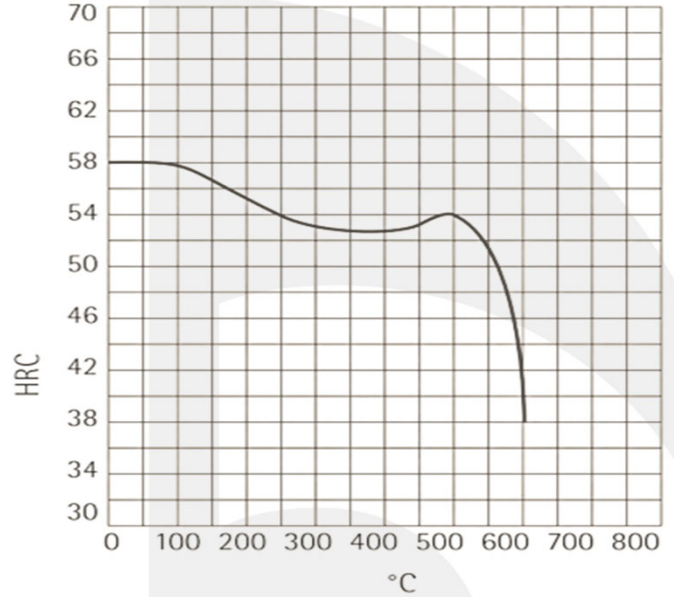
Chemical Composition

0.36-0.42 % C	≤1.00 % Si	≤1.00 % Mn
12.50-14.50 % Cr	-	-

Applications

- Mainly used in the production of PVC mold
- Any cutting task like knife, cutting tool, kitchen utensil, spring, seal valve or machine part for mining/wood industry
- It can be used for Spectacular lens, camera lens, science experimental tube, syringe

Heat Treatment Properties



Normalization °C	1150-800
Soft Annealing °C	760-800
Delivery Hardness HB 30	max. 230

Hardness		Hardening Range
Austenitizing °C	Cooling	HRC
1020-1050	Oil, Fluid bed	56-57

Tempering °C	100	200	300	400	450	500	550	600
HRC	58	57	54	53	53	54	52	39

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