

















Smelting method: EAF+LF+VD+ESR

Main characteristics: Extremely high mirroring performance, favorable corrosion resistance, high abrasion resistance and favorable machining performance.

Major applications: • Super-mirror plastic molds: molds for optical Lens and other transparent plastic pieces; • Corrosion preventive high-resisting molds: Molds for fold vessels, cosmetics vessels, medical devices, light guiding plates, bottle covers, etc. • Formed resin materials: PC, PVC, PP, PE, PF, PMMA, adding fire retardant resin, etc.

Chemical constituent (%):

С	Si	Mn	Cr	Мо	Ni	V	Р	S
0.4	1.05	0.55	13.5	0.3	0.22	0.3	≤ 0.03	≤ 0.015

Physical Property:

		200°C thermal conductivity (W/m•K	Elastic mouldus	Linear expansivity (x10 ⁻⁶ K)		
density (Kg/m³)			(N/mm²)	20 ~ 200°C	20 ~ 400°C	
7.80	465	23	241,000	11.2	11.5	

Ultrasonic flaw detection: Flaw detection standard: as per GB/T 6402-2008 Class 4 flaw detection standard or as per customer requirements.

Purity:

Cla	ss A	Class B		Class C		Class D	
Fine	Coarse	Fine	Coarse	Fine	Coarse	Fine	Coarse
1.0	0.5	1.5	1.0	1.0	1.0	1.5	1.0

Delivery state: Delivery hardness: delivery under annealing state, $\leq 255 \text{HB}$;

Supply specification

Round Steel	Flat Steel	Module		
Ф 16-500mm	16~120mmx200~610mm	120~300x300~1,000mm		

Thermal treatment

Softening annealing

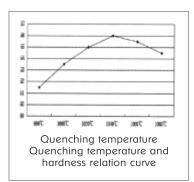
Heating to 850° C for heat insulation; cooling to 650° C at 10° C/h air cooling

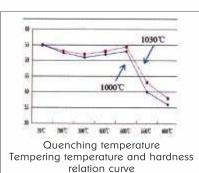
Quenching

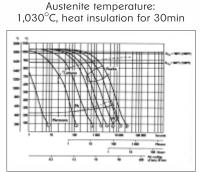
1020~1030°C quenching rapid air cooling

Tempering

Tempering temperature 250°C (favorable tenacity and corrosion resistance): selecting tempering temperature as per hardness requirements; tempering for twice.







CCT curve

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