

















Smelting method: EAF+LF+VD+ESR

Main characteristics: Favorable corrosion resistance, abrasion resistance, quenching, cutting performance, and polishability as well as high surface fineness.

Major applications: • Production of PVC molds; • Long-life molds; • Molds for disposable tableware; • Production of optics parts, for example, cameras, sunglasses lens, medical vessels, etc.

#### Chemical constituent (%):

С	Si	Mn	Cr	Мо	W	V	Р	S
0.42	≤ 1.00	≤ 1.00	13.5				≤ 0.03	≤ 0.005

### Physical Property:

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Room temperature	Specific heat of room		Elastic mouldus	Linear expansivity (x10°K)		
density (Kg/m³)	temperature (J/Kg.K)	conductivity (W/m•K	(N/mm²)	20 ~ 200°C	20 ~ 400°C	
7.8	460	24	220,000	10.9	11.6	

# Purity: Electric furnace steel:

Cla	Class A Class B		Class C		Class D		
Fine	Coarse	Fine	Coarse	Fine	Coarse	Fine	Coarse
1.5	1.0	2.0	1.5	1.5	1.0	1.5	1.5

### Electroslag steel:

Cla	ss A	Cla	ss B	Cla	ss C	Cla	ss 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

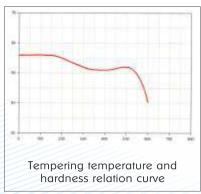
**Delivery state**: (1) Delivery under annealing state, deliver hardness ≤235HB;

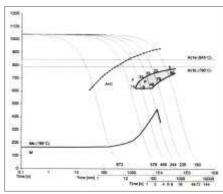
#### Supply specification

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Round Steel	Flat Steel	Module
Ф 16-500mm	16~120mmx200~810mm	120~500mmx300~1,200mm

## Thermal treatment

Softening annealing	Quenching	Tempering		
Heating to $850^{\circ}\text{C}$ for heat insulation; cooling to $650^{\circ}\text{C}$ at $10^{\circ}\text{C/h}$ air cooling	1,020~1,030°C quenching rapid air cooling	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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