

Global Standard High Quality Mould Steel, SMAT & TP

SMAT

Precise Plastic Mould Steel

SeAH's Mould Steel by Advanced Technologies

SMAT series has high cleanliness and improved mechanical properties through ESR and has stable quality level even in large cross-sectional products. SMAT series has high reputation as it is designated as the official mould steel by global electronics and automobile companies.

Product	Mechanical Properties	Applications	Hardness	Mirror Finish
SMAT E (ASTM P20+Ni ESR Modified)	Great weldability, Photo etching & Mirror finish	Automobile lamp lens, TV bezel etc.	HRC 40	#12,000
SMAT F (ASTM P21 ESR Modified)	Precise machining, High mirror finish	Transparent lens, Small moulds for Al/Cr coated parts	HRC 40	#12,000
SMAT G (WNR1.2343 ESR Modified)	High thermal conductivity & Wear resistance	Premium lens, fiberglass resin	*HRC 46~52	#14,000
SMAT V (WNR1.2083 ESR Modified)	Excellent corrosion & Wear resistance	Reflector and optical lens, resins with corrosive gas	*HRC 50~55	#14,000

❖ Hardness can be adjusted upon customer's heat treatment conditions.

TP

General Plastic Mould Steel

Tool for Plastics

TP series is the best quality mould steel manufactured in optimized design and by state-of-the-art refinement, forging and heat treatment technologies. Customers can always choose various products according to their usage environment and resins used.

Product	Mechanical Properties	Applications	Hardness	Mirror Finish
TP1 / S55CP (Carbon)	Carbon steel	General mould base	HB 215	#1,000
TP4 (Cr-Mo)	Good photo etching & Welding	Lower mould for auto & Home appliances, etc.	HRC 32	#3,000
TP4M (Ni-Cr-Mo)	Improved than TP4	Upper mould for auto & Home appliances, etc.	HRC 35	#5,000
TP4MS (WNR1.2312 Modified)	Free cutting steel with MnS	Auto materials, Bezel, Lamp housings, etc.	HRC 32	#5,000
TP4M HH (WNR1.2738 HH Modified)	Improved mirror finish than TP4M	TV rear covers, Glossy auto parts	HRC 38	#8,000

