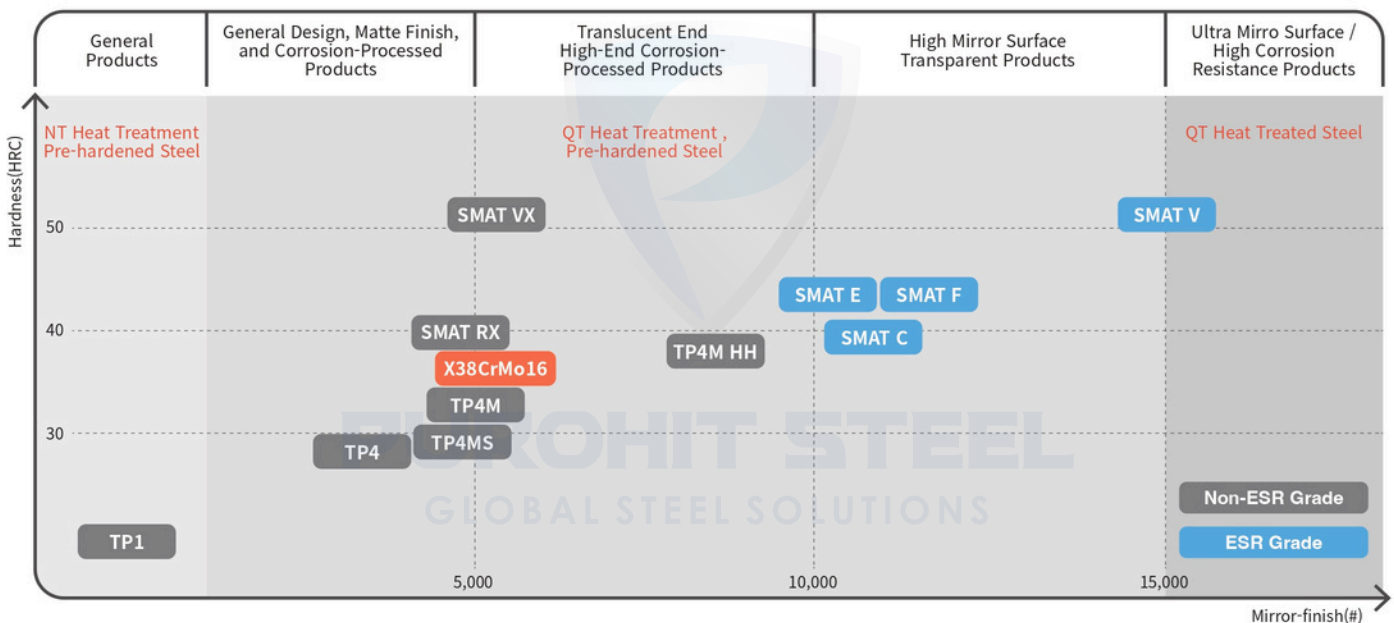


W Nr 1.2316, EN 4957-2018

X38CrMo16

Optimal Solution for High-Gloss Plastic Injection Molds

X38CrMo16 is a martensitic stainless steel designed for high-gloss plastic injection molds. It combines superior corrosion resistance, exceptional hardness, and wear resistance to ensure reliability and precision, even in corrosive environments, while delivering long-lasting durability.



- SeAH CSS mold steel is supplied in either pre-hardened or product heat-treated form, depending on the required hardness.
- SeAH CSS mold steel, through advanced forging and heat treatment technology, controls the hardness deviation from the surface to the core within 3 to 4 HRC points, which is the highest domestic standard, ensuring stable quality.

•Delivery Condition

[Unit : Wt%]

X38CrMo16	C	Si	Mn	P	S	Cr	Mo
	0.33~0.45	~1.00	~1.50	~0.03	~0.03	15.5~17.5	0.80~1.30
Tensile strength [MPa] *						Hardness [HRC]	
950~1,200						34~38	

* According to DIN EN ISO 18265 Table A.1

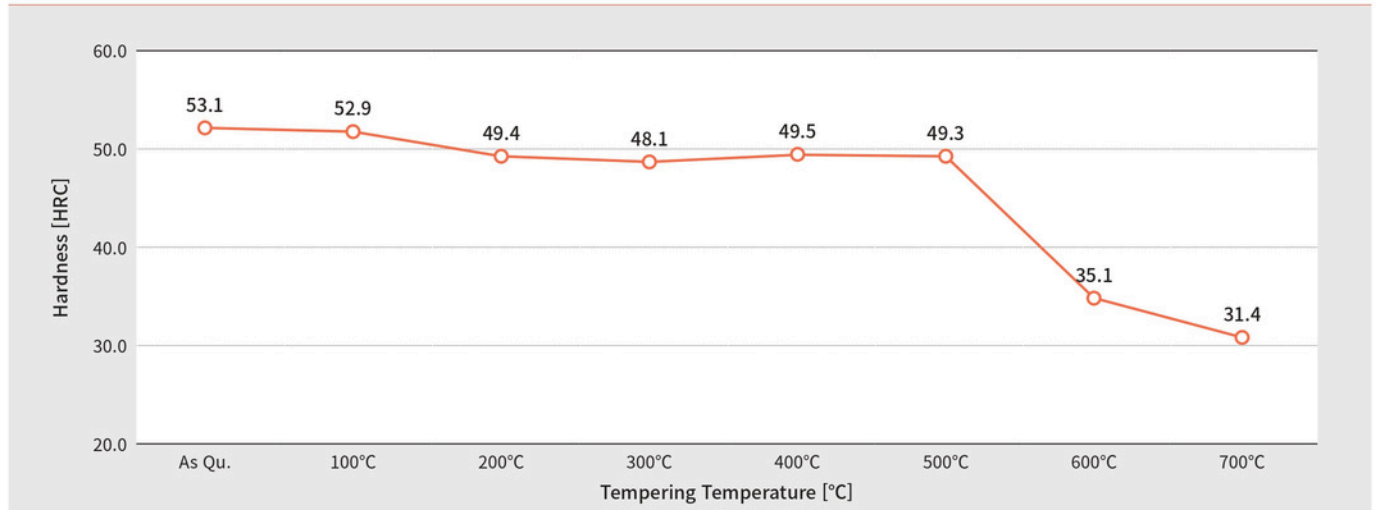
• The physical properties shown are typical. Products can be supplied to meet customer's specific hardness requirements.(HRC 28-32, 32-36, or 36-40)

•Physical Properties

	25°C	100°C	200°C	300°C
Thermal Expansion Coefficient [10-6/°C]		10.8	11.2	11.5
Thermal Conductivity [W/(m · K)]	19.82	21.82	22.95	23.49
Specific Heat [J/g · K]	0.451	0.486	0.521	0.557
Thermal Diffusivity [mm²/s]	5.713	5.641	5.535	5.301

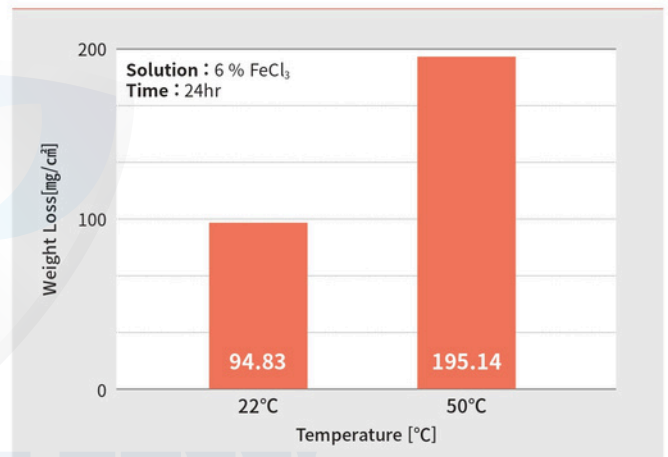
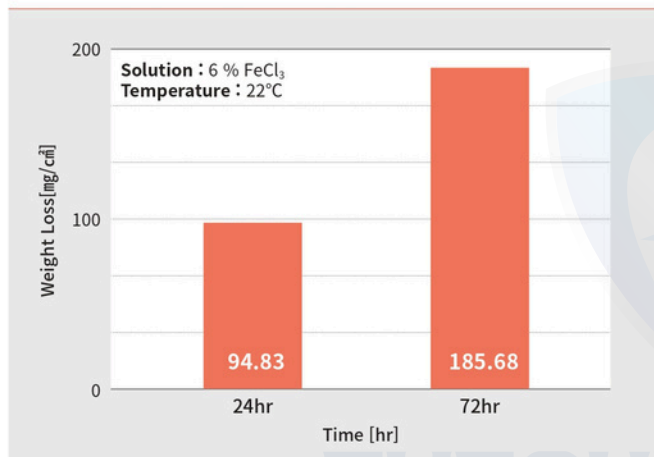
X38CrMo16

•Mechanical Properties



•Corrosion Resistance

[Ferric Chloride Pitting Test –(ASTM G48 ('20) Method A)]



•Application



- 1) The characteristic values listed in this catalog are representative data and may differ from guaranteed values, so please note.
The data in this catalog are representative figures based on our test data and may vary depending on conditions and equipment.
The data in this catalog are technical reference materials and do not guarantee product quality.
- 2) The contents of this catalog may be subject to change without prior notice.
- 3) Unauthorized reproduction of the content in this catalog is prohibited.
- 4) For unclear matters, please consult with our representatives.
- 5) The contents of this catalog are as of September 2025.

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