

ATT 2316 MOD (2316 ISO-B MOD)

CHEMICAL ANALYSIS (PERCENTAGE BY MASS)

	С	Si	Mn	P	S	Cr	Ni	Мо
Guide analysis	0.28	0.30	0.95	0.030	0.003	14.2	-0.50	1.10
Standard	0.33 - 0.45	≤ 1.00	≤ 1.50	≤ 0.030	≤ 0.030	15.5 - 17.5	≤ 1.00	0.80 -1.30

CHARACTERISTICS

Modified, corrosion-resistant mold steel, polishable, etch-grainable, economical to machine.

APPLICATION

Injection dies, mold inserts, slit dies, profile dies, extrusion tools, drop forging tools and coaxial housings for processing PVC aminoplastics and additives; blow molds.

Important note: When processing aminoplastics and PVC alloys, excessive work temperatures (> 160 °C) can result in highly aggressive fission products, such as hydrochloric acid HCl, which can cause corrosion on the surface of the mold. No mold steel is resistant to this. The production temperature of 160 °C should therefore not be exceeded.

DELIVERED CONDITION

Hardened and tempered to 265 – 310 HB (approx. 900 – 1,050 MPa)* Annealed on request.

PHYSICAL PROPERTIES

Thermal Conductivity (W/m.K) at	20°C	250°C	500°C
	23.0	24.0	25.0
Thermal Expansion (μm/m)	20-100°C	20-250°C	20-500°C
from 20°C to	10.0	12.0	13.2
V	20°C	250°C	500°C
Young's modulus (GPa)	215	203	180

Advanced Tooling Tek Shanghai Co., Ltd.

No, 1-3, Lane 499, Xin Miao San Road, Xianqiao Town, Songjiang Dist., Shanghai, 201612 China Tel: +86 21 3373 8146 | Fax: +86 21 3373 8193 | info@att-metal.com





~X38CrMo16

Z35CD17

DIN EN ISO 4957

AFNOR

 $[\]star$ Surface hardness in Brinell, converTED TO DIN EN ISO 18265 Table A.1.

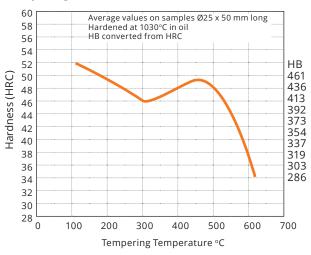


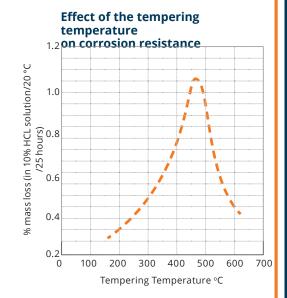
ATT 2316 MOD (2316 ISO-B MOD)

HEAT TREATMENT

Temperature	Approx. 590°C in the quenched and tempered state			
Duration	1 hour per 50 mm wall thickness			
Cooling	Furnace			
Temperature	820°C			
Duration	1 hour per 25mm wall thickness			
Cooling	Furnace			
Temperature	1030°C			
Duration	1 min per mm wall thickness			
Max. 52 HRC	in oil or vacuum			
Temperature	See tempering curve			
Duration	1 hour per 25 mm wall thickness			
Cooling	Air			
265-310 HB				
	Duration Cooling Temperature Duration Cooling Temperature Duration Max. 52 HRC Temperature Duration Cooling			

Tempering curve





TTT curve (continuous)

