

Nitriding Steel

BM1.8550

1.8550 is the most common aluminum alloy nitriding steel. Mostly intended for work at elevated temperatures in an environment that requires high sliding properties, corrosion, temperature, abrasion, and fatigue resistance. Nitriding ability is high due to the aluminum it contains.

Chemical Composition

0.30-0.37 % C	0.40-0.70 % Mn	0.80-1.20 % Al
1.50-1.80 % Cr	0.15-0.25 % Mo	0.85-1.15 % Ni

Applications

- Screw and sleeve parts of plastic injection machines
- Injection shafts, gears and machine parts
- Plungers, piston rods
- Cylinders, pistons, gears, extruders, and rings

Heat Treatment Properties

Normalization °C	1050-850
Soft Annealing °C	650-700
Delivery Hardness HB 30	max. 248

Hardness	Hardening Range	
Austenitizing °C	Cooling	HRC
870-930	Vacuum, Oil, Fluid bed	-

W.No	1.8550
DIN	34CrAlNi7-10
AISI / SAE	
JIS	

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