

Nitriding Steel BM1.8509

1.8509 is a Al-alloyed nitriding steel. Which is used for very large products. Also material can obtain high wear resistance, good toughness and ductility after nitriding which can give a hard wear resistant case up to 68HRC.

W.No	1.8509
DIN	41CrAlMo7-10
AISI / SAE	-
JIS	-

Chemical Composition

0.38-0.45 % C	≤0.40 % Si	1.50-1.80 % Cr
0.20-0.35 % Mo	0.80-1.20 % Al	0.40-0.70 % Mn

Applications

- Piston rods, extruders, cylinders, shafts which require high surface hardness structural parts
- Straightening tools, measuring tools
- Valve stems
- Plastic injection shafts
- Gears, machine parts
- Brick press and clutch plates

Heat Treatment Properties

Normalization °C	1200-900
Soft Annealing °C	650-750
Delivery Hardness HB 30	max. 248

Hardness	Hardening Range	
Austenitizing °C	Cooling	HRC
1040-1100	Air, Water	55-56

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