



Prakash Steel Corporation

Dealers & Stockists In : Alloys & Special Steel

Nitriding Steels

Nitriding steels are special grades low alloy surface hardened steels containing Carbon 0.3 to 0.45% and Cr-Mo as alloying elements with or without Al.

These alloys when heated at about 500-525 deg C, in contact with cracked ammonia, nascent nitrogen diffuses into surface and forms complex alloy nitrides imparting very high hardness resulting in highwear resistance and corrosion resistance besides anti spalling properties. Alloys containing Al develop hardness up to 1100 HV.

Application

Injection Moulding Equipment, Hydraulic Cylinders, Gears And Pinions, Die Inserts, Valve And Gate Parts, Cams, Piston Pins, etc.

Grade	%	C	Mn	Si	Ni	Cr	Mo	S	P	Al
En 41B	Min	0.35	Max.	0.1	Max.	1.4	0.1	Max.	Max.	0.9
	Max	0.45	0.65	0.45	0.4	1.8	0.25	0.015	0.02	1.3