

MATERIAL DESIGNATION	ALLOY COMPOSITION	CONDITION	YS RPO,2 [MPA]	UTM RM [MPA]	ELONGATION	HARDNESS	DENSITY MIN [G/CM <sup>3</sup> ]	REMARKS
<b>ALLOYS</b>								
MIM FN02 MIM 2200	Ni 1,5-2,5% C 0,1% max Fe Balance	Sintered	>150	>260	>20%	>85 HV (45 HRB)	>7.5	
MIM FN08 MIM 2700	Ni 6,5-8,5% C 0,1% max Fe Balance	Sintered	>210	>380	>20%	>120 HV (69 HRB)	>7.6	
MIM FN0805	Ni 6,5-8,5% Mn 0,5% max C 0,4-0,7% Fe Balance	Sintered	>400	>700	>5%	>150 HV (79 HRB)	>7.6	case hardenable
		Heat treated	>700 (>1100)	>800 (>1300)	>5% (>3%)	300-510 HV (30-50 HRC)		
MIM 4605	Ni 1,5-2,5% Mo 0,2-0,5% Si 1,0% max C 0,4-0,6% Fe Balance	Sintered	>400	>600	>5%	>150 HV (79 HRB)	>7.55	case hardenable
		Heat treated	>1100	>1300	>5%	490-590 HV (48-55 HRC)		
MIM 8620 1.6523	Ni 0,4-0,7% Mo 0,15-0,25% Cr 0,4-0,6% C 0,12-0,23% Fe Balance	Sintered	400	650	3%	>190 HV (90 HRB)	>7.40	case hardenable
		Heat treated				650-800 HV (58-64 HRC)		

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MIM 4340 1.6944	Ni 1,65-2,0% Mo 0,2-0,3% Cr 0,6-0,9% C 0,35-0,45% Fe Balance	Sintered	>500	>700	>11%	>130 HV (71 HRB)	>7.5	heat treatment
		Heat treated	>1400	>1620	>2%	450 HV (45 HRC)		
MIM 100Cr6 1.3505	Cr 1,35-1,65% C 0,8-1,05% Fe Balance	Sintered	>500	>900	>5%	>230 HV (97 HRB)	>7.4	heat treatment, wear resistant
		Heat treated				>700 HV (60 HRC)		

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<b>STAINLESS STEELS</b>								
MIM 17-PH 1.4542	Cr 15-17,5% Ni 3,0-5,0% Mn 1,0% max Si 1,0% max Cu 3,0-5,0% C 0,07% max Fe Balance	Sintered	>660	>800	>3%	>320 HV (32 HRC)	>7.65	hardenable, ferromagnetic
		Heat treated				>370 HV (38 HRC)		
MIM 316L 1.4404	Cr 16-18,5% Ni 10-14% Mo 2,0-3,0% Mn 2,0% max Si 1,0% max C 0,03% max Fe Balance	Sintered	>140	>450	>40%	>120HV	>7.9	non-magnetic, austenitic, corrosion resistant
MIM 440C MOD. mod. 1.4125	Nb 1,0-2,0% Mo 0,75% max Ni 0,6% max Cr 16-18% Mn 1,0% max Si 1,0% max C 0,85-1,0% Fe Balance	Sintered		>780	>15%	> 350HV (35 HRC)	>7.6	Martensitic Stainless Steel,
		Heat treated				>590HV ( 55 HRC)		