

Data Sheet — 440C

for technical applications

Comparable Standards	DIN 1.4125	X105CrMo17	AISI 440C
	-	MPIF Standard 35 MIM-440	

Composition	Fe	C	Cr	Ni	Mo	Mn	Si	Nb	others
min (wt.%)	-	0.85	16.0	-	-	-	-	-	-
max (wt.%)	Bal.	1.25	18.0	0.6	0.8	1.0	1.0	3.5	1.0

Typical Properties	Density	Hardness	R _m	R _{p0.2}	A ₁₀
	g/cm ³	HV10	MPa	MPa	%
as sintered	≥ 7.5	≥ 350	≥ 780	≥ 600	-
heat treated		≥ 590			

Microstructure	as sintered	heat treated
		

Characteristics	Heat treatable stainless steel with high strength, hardness and wear resistance; moderate corrosion resistance
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Typical Applications	Components with high demands on strength and wear resistance with a moderate corrosion resistance: Mechanical and plant engineering; cutting tools, injection nozzles, surgical instruments, bearing industry.
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These data presented here are based on our current knowledge and experience, but no liability can be assumed.