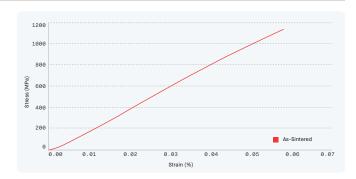
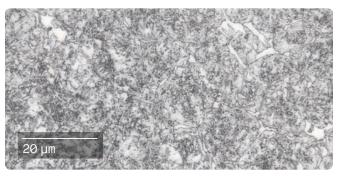


[Material Data Sheet]

440CHigh Carbon Martensitic Stainless Steel



COMPOSITION %		
С	0.09 – 1.25	
Cr	16 – 18	
Мо	0.75 (Max)	
Nb	3.5 (Max)	
Ni	0.6 (Max)	
Mn	1.0 (Max)	
Si	1.0 (Max)	



MECHANICAL PROPERTIES				
	Standard	Production System™ As Sintered	Production System™ MPIF 35	
Hardness (HRC)	ASTM E18	58 ± 1	56	
Density (g/cc)	ASTM B311	7.64	-	
Ultimate tensile strength -x (MPa)	ASTM E8M	1104	1030 – 1310	
Elongation - x (%)	ASTM E8M	0.6	<1	
Charpy Impact* - xy (J)	MPIF 59	4.33 ± 0.5	5	

ATTRIBUTES & APPLICATIONS		
High hardness martensitic stainless steel		
Good corrosion resistance in hardened and tempered condition		
Magnetic		

OTHER STANDARD DESIGNATIONS

MPIF 35

Good wear resistance

End-use material performance is impacted (+/-) by certain factors including but not limited to part geometry and design, application and evaluation conditions, etc.

 $^{^{\}star}$ The charpy impact specimens are 5x10mm cross section un-notched.