Sandvik 12C27 Strip Steel

Category : Metal , Ferrous Metal , Martensitic , Special-Purpose Steel , Stainless Steel

Material Notes:

Sandvik 12C27 is a martensitic stainless chromium steel with an optimized analysis for high quality professional knife applications.After heat treatment the composition of carbon and chromium gives a unique combination of properties including:Very high hardnessGood corrosion resistance Very high wear resistanceThis grade is suitable for:Hunting and fishing knivesPocket knivesSkate blades and ice drillsInformation provided by SandvikASTM 420; EN 1.4034, 1.4037

Order this product through the following link:
http://www.lookpolymers.com/polymer_Sandvik-12C27-Strip-Steel.php

Physical Properties	Metric	English	Comments
Density	7.70 g/cc	0.278 lb/inÂ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	<= 94.3	<= 94.3	soft annealed
	91.4 - 103.4	91.4 - 103.4	annealed
	94.3 - 106.6	94.3 - 106.6	cold rolled
Hardness, Rockwell C	53.6	53.6	tempering temperature- 350Â°C
	59.8	59.8	tempering temperature- 150Â°C
Hardness, Vickers	<= 215	<= 215	soft annealed
	200 - 270	200 - 270	annealed
	215 - 315	215 - 315	cold rolled
Tensile Strength	<= 700 MPa	<= 102000 psi	soft annealed
	650 - 850 MPa	94300 - 123000 psi	annealed
	700 - 1000 MPa	102000 - 145000 psi	cold rolled

Component Elements Properties	Metric	English	Comments
Carbon, C	0.60 %	0.60 %	
Chromium, Cr	13.5 %	13.5 %	
Manganese, Mn	0.40 %	0.40 %	
Phosphorous, P	<= 0.025 %	<= 0.025 %	
Silicon, Si	0.40 %	0.40 %	

Component Elements Properties	Metric	English	Comments
Sulfur, S	0.50 - 1.0 %	0.50 - 1.0 %	

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