

MATERIAL DATASHEET

S157

Page 1 of 1

Material Grade:

S157

Available Variant(s):

Variant	Intended use	Condition of supply	Dimensional	Straightness	Clean-up	
			tolerance			
S157A	Forging stock/ billets	Softened	EN10060	EN10060	Per agreement	
	for subsequent forging					
S157B	Black bars for further	Softened	EN10060	EN10060	No less than	
	machining				4%	
S157C	Forgings	Softened	Per agreement	Per agreement	Per agreement	
S157D	Bright bars for further	Softened followed by cold	BS EN 10278	BS EN 10278	BS EN 10278	
	machining	drawing or machining				

Nearest engineering grade: BS970, 832M13

Associated standards:¹ BS S157: 1976

BS 6S 100: 2010

Melting/refining method(s): Manufactured by an electric process

1. TYPICAL CHEMICAL COMPOSITION

%	<u>C</u>	<u>Si</u>	<u>Mn</u>	<u>P</u>	<u>s</u>	<u>Cr</u>	<u>Mo</u>	<u>Ni</u>	<u>Cu</u>
Min	0.12	0.15	0.3	0	0	0.8	0.2	3	0
Max	0.17	0.4	0.6	0.025	0.02	1.1	0.3	3.5	0.3

2. TYPICAL MECHANICAL PROPERTIES

Test type					Tensile and hardness test (at room temperature)					
					0.2 % proof	UTS (Rm)	Elong (A)	R of A (Z)	Hardness	(izod) Room Temp
Condition	Nominal diameter or thickness	Direction	Unit	(Re) N/mm2	N/mm2	N/mm2	%	%	НВ	ft/lbs
Softened	_	-	Min	-	-	-	-	-	-	-
(condition of delivered material)	-		Max	-	-	-	-	-	241	-
Heat treated as per spec	_	L	Min	-	930	1180	8	-	-	25
TEST SAMPLE ONLY	-	L	Max	-	-	1380	-	-	-	-

¹ valid at the time of writing.

Whilst great care and attention has been paid to compose this datasheet but we will not take the responsibility for any errors.

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