

7.9.2016

404590

12

Customer's order number 0046076049				Manufacturer's order number 131888 1			
Customer/consignee Tibnor Ab Abramsons väg 1 63510 Eskilstuna Sweden				Buyer Tibnor Ab Box 600 16926 Solna Sweden			
Customer reference number 0046076049-0060/66874							
Product Round bar As rolled Hot rolled				Steel grade 520M/S355J2+N			
				Specification 520M/S355J2/TIB 06.08.15			
Charge 27367	Abbreviation H82	Diameter/dimensions 25 mm	Reduction ratio 233,78 :1				

CAST ANALYSIS

	C %	SI %	MN %	P %	S %	CR %	NI %	MO %
Min					0,020			
Result	0,12	0,32	1,25	0,010	0,035	0,21	0,13	0,04
Max	0,20	0,55	1,60	0,035	0,040			
	V %	TI %	CU %	ALS %	AS %	SN %	B %	CA %
Min								0,0020
Result	0,06	0,0012	0,24	0,014	0,008	0,011	0,0002	0,0043
Max	0,09							
	N %	NB %	CO %	PB %	W %	SB %	CEV %	
Min								
Result	0,012	0,003	0,014	0,0002	0,007	0,002	0,42	
Max							0,45	

CHARPY V2/-40 C EN ISO 148-1

	KV1 J	KV2 J	KV3 J	KV AVER J
Min				27
Result	122	126	126	125
Max				

TENSILE TEST FROM 1/3 RADIUS EN ISO 6892-1

	REH MPa	Rp0.2 MPa	Rm MPa	A 5 %	Z %
Min		380	520	22,0	
Result	455	454	576	23,6	52
Max			630		

520M/S355J2+N - EN10025-2:2004

The products supplied are in compliance with the requirements of the order

This certificate is issued electronically and is valid without a signature

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Karhula Matti
Authorized Representative