12 7.9.2016 404590

Customer's order number 0046076049				Manufacturer's order number 131888 1			
Customer/c Tibnor Ab Abramsons 63510 Eski Sweden	väg 1			Buyer Tibnor Ab Box 600 16926 Solna Sweden			
	eference numl 9-0060/66874						
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 ra 233,78 :1	tio			

CAST ANALYSIS									
	С	SI M		P	S	CR	NI	MO	
	%	% %	5	용	용	쓩	용	%	
Min					0,020				
Result	0,12	0,32 1	•	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	В		CA
N/	%	%	%	%	%	%	%		% 0.0000
Min Result	0,06	0,0012	0 24	0 01	4 0 00	0 0 0	11 0	0002	0,0020 0,0043
Max	0,00	0,0012	0,24	0,01	4 0,00	0 0,0	11 0,	,0002	0,0043
Max	0,09								
	N	NB	CO	PB	W	S	В	CEV	
	%	%	%	%	૾	%		%	
Min									
Result	0,012	0,003	0,01	4 0,00	002 0,	007 0	,002	0,42	
Max								0,45	
CHARPY V2/-40	C EN I	SO 148-1	L						
		KV2 KV3	KV 2	AVER					
	J	J J	J						
Min			27						
Result	122	126 126	125						
Max									

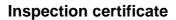
TENSILE TEST FROM 1/3 RADIUS EN ISO 6892-1

REH Rp0.2 Rm A 5 Z MPa MPa MPa % % 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



EN 10204 3.1

2/ 2

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7.9.2016 404590

Customer's 004607604	order number 9		Manufacturer's order number 131888 1			
Customer/o Tibnor Ab Abramsons 63510 Esk Sweden	väg 1		Buyer Tibnor Ab Box 600 16926 Solna Sweden			
	eference number 9-0060/66874					
Product Round bar As rolled Hot rolled			Steel grade 520M/S355J2+N Specification 520M/S355J2/TIB 06.08.15			
Charge 27367	Abbreviation Diameter/dimensions H82 25 mm	Reduction ra 233,78 :1	tio			

Karhula Matti Authorized Representative