

INSPECTION CERTIFICATE 3.1

ACCORDING TO EN 10204

ISO 9001 and IATF 16949 approved,
certified by Lloyd's Register LRQA

Delivery address OVAKO METALS OY AB TUOTEKATU 3 FI-33840 TAMMERFORS Intended for OVAKO METALS OY AB Specification OVAKO 280 HOLLOW BARS FOR MACHINING, HOT FINISHED SEAMLESS TUBES ACCORDING TO EN 10294-1:2005, E470 Product COLD ROLLED STRESS RELIEVE ANNEALED TUBES.	Date 201013 Our order 2093816 Your order 017101	Cert number C6305128 Pos 1 Ovako grade 280T	Ver 1 Your art.number 55-1770596 Grade OVAKO 280	Page 1																																																		
Check of radioactivity has been performed.																																																						
Extent of delivery		Country of origin, Sweden																																																				
<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:20%;">Type No</td> <td style="width:20%;">OD mm</td> <td style="width:20%;">ID mm</td> <td colspan="2"></td> </tr> <tr> <td>4535</td> <td>45,70</td> <td>33,50</td> <td colspan="2"></td> </tr> <tr> <td>Quantity kg</td> <td>Net weight Kg</td> <td>MO number</td> <td colspan="2">Heat Number</td> </tr> <tr> <td>1022,0</td> <td>1022,0</td> <td>3277870</td> <td colspan="2">P5296</td> </tr> </table> <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:20%;">Heat number</td> <td colspan="5">Chemical composition</td> </tr> <tr> <td>P5296</td> <td>C %</td> <td>Si %</td> <td>Mn %</td> <td>P %</td> <td>S %</td> </tr> <tr> <td></td> <td>0,19</td> <td>0,32</td> <td>1,52</td> <td>0,007</td> <td>0,028</td> </tr> <tr> <td></td> <td>V %</td> <td>Al %</td> <td>O ppm</td> <td colspan="2"></td> </tr> <tr> <td></td> <td>0,093</td> <td>0,029</td> <td>7,0</td> <td colspan="2"></td> </tr> </table>					Type No	OD mm	ID mm			4535	45,70	33,50			Quantity kg	Net weight Kg	MO number	Heat Number		1022,0	1022,0	3277870	P5296		Heat number	Chemical composition					P5296	C %	Si %	Mn %	P %	S %		0,19	0,32	1,52	0,007	0,028		V %	Al %	O ppm				0,093	0,029	7,0		
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Date	Cert number	Heat number	Ver	Page
201013	C6305128	P5296	1	2
MECHANICAL TEST RESULTS				
Sample				
	A5 %	ReH N/mm²	Rm N/mm²	
10	21,0	845	898	
11	19,1	880	925	
HARDNESS HB				
Sample				
	HB			
10	269			
11	273			
Printed by computer		The requirements stipulated are satisfied		Issuer of certificate certhofors@ovako.com