

INSPECTION CERTIFICATE 3.1

ACCORDING TO EN 10204

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

Delivery address OVAKO METALS OY AB TUOTEKATU 3 FI-33840 TAMMERFORS	Date 170407 Our order 1792799	Cert number C6227762 Pos 1	Ver 1	Page 1
Intended for OVAKO METALS OY AB	Your order 002414	Your art,number 55-1770596		
Specification	Ovako grade 280T	Grade		
Product COLD ROLLED STRESS RELIEVE ANNEALED TUBES.				
Check of radioactivity has been performed.				

Extent of delivery

Type No	OD mm	ID mm	Quantity kg	Net weight Kg	MO number	Heat Number
4535	45,70	33,50	358,0	358,0	2281355	T8165
Heat number	Chemical composition					
T8165	C %	Si %	Mn %	P %	S %	
	0,18	0,38	1,50	0,008	0,027	
	V %					
	0,102					

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Printed by computer	The requirements stipulated are satisfied	Issuer of certificate A000240
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Date	170407	Cert number	C6227762	Heat number	T8165	Ver	1	Page	2
Sample									
10									
MECHANICAL TEST RESULTS									
Sample									
	A5 %	ReH N/mm2	Rm N/mm2						
10	16,7	796	879						
11	16,1	813	887						
HARDNESS HB									
Sample									
	HB								
10	285								
11	285								
IMPACT TEST, KV IN JOULE, LONGITUDINAL									
Sample									
	KV+20°C								
10	82								
110	88								
120	112								
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Date 170407	Cert number C6227762	Heat number T7553	Ver 1	Page 4
IMPACT TEST, KV IN JOULE, LONGITUDINAL				
Sample				
10				
11				
MECHANICAL TEST RESULTS				
Sample				
	A5 %	ReH N/mm2	Rm N/mm2	
10	17,1	783	866	
11	17,3	810	881	
HARDNESS HB				
Sample				
	HB			
10	279			
11	271			
IMPACT TEST, KV IN JOULE, LONGITUDINAL				
Sample				
	KV+20°C			
10	58			
110	70			
120	80			
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IMPACT TEST, KV IN JOULE, LONGITUDINAL				
Sample				
10				
11				
MECHANICAL TEST RESULTS				
Sample				
	A5 %	ReH N/mm2	Rm N/mm2	
10	18,5	777	874	
11	16,5	787	887	
HARDNESS HB				
Sample				
	HB			
10	280			
11	285			
IMPACT TEST, KV IN JOULE, LONGITUDINAL				
Sample				
	KV+20°C			
10	186			
110	46			
120	142			
Printed by computer		The requirements stipulated are satisfied		Issuer of certificate A000240