



INSPECTION CERTIFICATE 3.1

ACCORDING TO EN 10204

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

Delivery address BE GROUP OY AB VANHANRADANKATU 42 FI-15520 LAHTI FINLAND	Date 230628 Our order 2392945	Cert number C6360132 Pos 1	Ver 1	Page 1
Intended for BE GROUP OY AB	Your order P105941	Your art.number 1303101081		
Specification OVAKO 280 HOLLOW BARS FOR MACHINING, HOT FINISHED SEAMLESS TUBES ACCORDING TO EN 10294-1:2005, E470	Ovako grade 280X	Grade E470		
Product COLD ROLLED STRESS RELIEVE ANNEALED TUBES.				
Check of radioactivity has been performed.				

Extent of delivery

Country of origin, Sweden

OD mm	ID mm			
30,70	18,50			
Quantity kg	Net weight Kg	MO number	Heat Number	
190,0	190,0	3287600	U4182	

Heat number Chemical composition

U4182	C %	Si %	Mn %	P %	S %
	0,17	0,33	1,48	0,009	0,025
	Cr %	Ni %	Mo %	Cu %	V %
	0,17	0,12	0,03	0,166	0,102
	Al %	N ppm			
	0,011	186			

Continue...

Printed by computer

The requirements stipulated are satisfied

Issuer of certificate
Carolina Halvars

From January 2022 all of Ovako's operations are carbon dioxide neutral. The goal is to achieve zero greenhouse gas emissions in scope 1 and 2, and until the goal is met, the company will counterbalance the remaining greenhouse gas emissions in all its operations through carbon offsets.

OVAKO Sweden AB
S-813 82 Hofors (reg office)
S-712 80 Hällefors

Telephone
+46290-25000
+46591-60000

Email
certhof@ovako.com
normercert.hallefors@ovako.com



INSPECTION CERTIFICATE 3.1

ACCORDING TO EN 10204

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

Delivery address BE GROUP OY AB VANHANRADANKATU 42 FI-15520 LAHTI FINLAND	Date 230628 Our order 2392945	Cert number C6360132 Pos 1	Ver 1	Page 3
Intended for BE GROUP OY AB	Your order P105941	Your art.number 1303101081		
Specification OVAKO 280 HOLLOW BARS FOR MACHINING, HOT FINISHED SEAMLESS TUBES ACCORDING TO EN 10294-1:2005, E470	Ovako grade 280X	Grade E470		
Product COLD ROLLED STRESS RELIEVE ANNEALED TUBES.				
Check of radioactivity has been performed.				

Extent of delivery

Country of origin, Sweden

OD mm	ID mm		
30,70	18,50		
Quantity kg	Net weight Kg	MO number	Heat Number
440,0	440,0	3287960	U3832

Heat number Chemical composition

U3832	C %	Si %	Mn %	P %	S %
	0,17	0,30	1,45	0,009	0,027
	Cr %	Ni %	Mo %	Cu %	V %
	0,23	0,13	0,04	0,161	0,096
	Al %	N ppm			
	0,011	189			

Continue...

Printed by computer

The requirements stipulated are satisfied

Issuer of certificate
Carolina Halvars

From January 2022 all of Ovako's operations are carbon dioxide neutral. The goal is to achieve zero greenhouse gas emissions in scope 1 and 2, and until the goal is met, the company will counterbalance the remaining greenhouse gas emissions in all its operations through carbon offsets.

INSPECTION CERTIFICATE 3.1 ACCORDING TO EN 10204

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

Date	230628	Cert number	C6360132	Heat number	U3832	Ver	1	Page	4
MECHANICAL TEST RESULTS									
Sample									
	A5 %	ReH N/mm²	Rm N/mm²						
10	17,1	685	766						
HARDNESS HB									
Sample									
	HB								
10	283								
Printed by computer					The requirements stipulated are satisfied			Issuer of certificate Carolina Halvars	



INSPECTION CERTIFICATE 3.1

ACCORDING TO EN 10204

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

Delivery address BE GROUP OY AB VANHANRADANKATU 42 FI-15520 LAHTI FINLAND	Date 230628 Our order 2392945	Cert number C6360132 Pos 1	Ver 1	Page 5	
Intended for BE GROUP OY AB	Your order P105941	Your art.number 1303101081			
Specification OVAKO 280 HOLLOW BARS FOR MACHINING, HOT FINISHED SEAMLESS TUBES ACCORDING TO EN 10294-1:2005, E470	Ovako grade 280X	Grade E470			
Product COLD ROLLED STRESS RELIEVE ANNEALED TUBES.					
Check of radioactivity has been performed.					
Extent of delivery		Country of origin, Sweden			
OD mm 30,70	ID mm 18,50	Quantity kg 2378,0	Net weight Kg 2378,0	MO number 3287961	Heat Number J7712
Heat number J7712	Chemical composition				
	C % 0,18	Si % 0,27	Mn % 1,49	P % 0,007	S % 0,024
	Cr % 0,10	Ni % 0,13	Mo % 0,04	Cu % 0,140	V % 0,090
	Al % 0,011	N ppm 175			
<i>Continue...</i>					
Printed by computer	The requirements stipulated are satisfied		Issuer of certificate Carolina Halvars		

From January 2022 all of Ovako's operations are carbon dioxide neutral. The goal is to achieve zero greenhouse gas emissions in scope 1 and 2, and until the goal is met, the company will counterbalance the remaining greenhouse gas emissions in all its operations through carbon offsets.

INSPECTION CERTIFICATE 3.1 ACCORDING TO EN 10204

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

Date	230628	Cert number	C6360132	Heat number	J7712	Ver	1	Page	6
MECHANICAL TEST RESULTS									
Sample									
	A5 %	ReH N/mm ²	Rm N/mm ²						
10	17,6	663	775						
HARDNESS HB									
Sample									
	HB								
10	294								
Origin date of certificate 20230628									
Printed by computer					The requirements stipulated are satisfied			Issuer of certificate Carolina Halvars	