

35-29137



# CERTIFICATE

No. F9917126  
Date 071205

Rev. 1  
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## INSPECTION CERTIFICATE selon NF EN 10 204 3.1

Division PRECITUBE

**Customer References**  
ODS S.V.

Customer order  
1001760150

**Sandvik Précitube References**

Order acknowledgement 9920419      Heat no 511867  
1

Lot no 0084330      Supplier SANDVIK STEEL

**Material description**  
COUNTRY OF ORIGIN: SANDVIK PRECITUBE  
COLD FINISH TUBE Sans soudure Recuit

**Melt process:** E/AOD

Internal grade TP316L3R60      External grade TP 316L

**Technical requirements**

OD: 21,200 +0,100/-0      Inch 0.835 "  
ID: 17,200 +0,3/-0      ID: 0.677 "  
WT: 2,000 \*BLANK      WT: 0.079 "  
A34  
REF 110046879

**Delivery detail**

Net weight (kg)	Delivered qty
209,2329	218,00 m

**Result Chemical Composition**

	C	MN	SI	P	S	CR	NI	MO	CU	N
Min						16,000	10,000	2,000		
Max	0,035	2,000	1,000	0,045	0,0300	18,000	14,000	3,000		
Heat	0,017	1,680	0,390	0,028	0,0100	17,360	13,170	2,520	0,310	0,036
Prod	0,016	1,680	0,390	0,028	0,0060	17,350	13,030	2,530	0,310	0,036
CO										
Min										
Max										
Heat	0,084									
Prod	0,084									

Following controls/tests have been satisfactory performed



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Dimensional inspection		<i>min</i>	<i>max</i>	<i>testvalue</i>
OD	mm	21.20	21.30	21,200
EP	mm			1,860
ID	mm	17.20	17.50	17,200
OD	mm	21.20	21.30	21,250
EP	mm			2,020
ID	mm	17.20	17.50	17,360

The material is manufactured according to a Quality system, approved and registered to ISO 9001 : 2000 and EN 9100 : 2003.  
We certify that, unless exceptions or deviations are listed above, the said delivery was manufactured in conformance with applicable purchase technical specifications, orders or suborders from the customer that, after all inspection and test operations were performed, the said delivery complied IN ALL RESPECTS to the attached specifications as well as to related drawings, standards and valid regulations.

Quality assurance Guérin Odile/Certificates

Signature: