



**CERTIFICATE OF APPROVAL OF MANUFACTURERS OF
MATERIALS
No. FAB019116XG**

This is to certify that the manufacture of the product identified below is in compliance with the applicable requirements of the RINA Rules for the Approval of Manufacturers of Materials.

<i>Description</i>	Welded stainless steel pipes and tubes
<i>Type</i>	Longitudinal Welded Stainless Steel Pipes and Tubes
<i>Applicant</i>	NiroSan Edelstahlrohr GmbH Buckower Chaussee 133 12277 Berlin Germany
<i>Reference standards</i>	RINA Rules for the approval of manufacturers of materials

Issued in **HAMBURG** on **March 4, 2016**. This Certificate is valid until **January 26, 2021**



RINA
H. Brunk

Dr. H. Brunk

RINA Services S.p.A.

This certificate consists of this page and 1 enclosure

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LONGITUDINAL WELDED STAINLESS STEEL PIPES AND TUBES

APPROVAL CONDITIONS

Longitudinal welded stainless steel pipes and tubes			
Dimensions		Type of steel	
International Standards	Outside Diameter Wall thickness	Austenitic steel	Ferritic steel
EN 10217-7	Diam. 12 - 114,3 mm	1.4301, 1.4306,	not applicable
AD 2000 W2	WD 1,0 - 5,0 mm	1.4307, 1.4401, 1.4404, 1.4541, 1.4571	
EN 10312	Diam. 15 - 108 mm WD 0,6 - 2,0 mm	1.4301, 1.4401, 1.4404	1.4521
ASTM A249	Diam. 12 - 114,3 mm	UNS S30400	not applicable
ASTM A312	WD 1,0 - 5,0 mm	UNS S30403 UNS S31600 UNS S31603 UNS S31635 UNS S32100	

General conditions for the approval

-The approval is granted on condition that the RINA Rules for the approval, manufacture, testing and certification of materials are complied with in all respects.

-RINA is to be notified of any change of materials, manufacturing process, quality control routines that may affect the validity of this certificate.



RINA
H. Brunk



HAMBURG March 4, 2016