



C291124

PrJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE																																		
		CUSTOMER DSS INTERNATIONAL SA Switzerland										PRODUCT DESCRIPTION Bars and rods of corrosion-resistant (stainless) steel hot rolled, peeled on Landgraf line. Прутки из коррозионностойких (нержавеющих) сталей горячекатаные, обточенные на линии Ландграф. STEEL MAKING PROCESS: EAF+AOD СПОСОБ ВЫПЛАВКИ: Электродуговая печь I AKP Round 3.750in/95.25 mm L=16.033ft/4.890 m L=15.574ft/4.750 m L=14.262ft/4.350 m L=12.557ft/3.830 m Grade: 316/316L/1.4401/1.4404							INSPECTION CERTIFICATE EN10204/3.1 Nr. 368184 PLANT ORDER № 8014900973															
		QUANTITY: (number of pcs)		1bund Q-3051 lb/1384 kg 1bund Q-3034 lb/1376 kg 1bund Q-560 lb/254 kg 1bund Q-498 lb/226 kg					Delivery condition solution annealed :1900 ⁰ F(1040 ⁰ C) water 30minutes термообработка: закалка в воду																									
ANALYSIS, %		C	Si	Mn	P	S	Cr	Ni	Mo	Al	Cu	V	W	Ti	Co	Nb	N	Sn	B															
REQUIRED		<.030	<1,00	1.20-2.00	<.040	.015-.030	16.50-18.00	10.00-13.00	2.00-2.50	<.10	<.40	<.10	<.20	<.15	<.40	<.20	<.10																	
CAST № A09656		.021	.48	1.33	.040	.025	16.92	10.21	2.07	.069	.27	.06	.07	.008	.12	.01	.026	.0075	.0022															
DIN EN 10002-1, ASTM A370-09																																		
MECHANICAL PROPERTIES		Yield Strength, (N/mm ²) R0.2% R 1.0%		Tensile Strength, Rm, (N/mm ²)	Elongation As % L Q In 2 inches (50mm) or 4D, min, % L		Reduction of area, Z % L	Brinell Hardness HB	Impact strength, KV, J L Q		TECHNICAL REQUIREMENTS: Macrostructure – GOOD GRAIN SIZE : 5 to ASTM E 112-96(2004) Nonmetallic inclusions ASTM E 45-05 (Method A) <table border="1"> <tr> <td>A</td> <td>B</td> <td>C</td> <td>D</td> </tr> <tr> <td>thin</td> <td>thick</td> <td>thin</td> <td>thick</td> </tr> <tr> <td>3.0</td> <td>2.0</td> <td>2.0</td> <td>1.0</td> </tr> <tr> <td>0.0</td> <td>0.0</td> <td>0.0</td> <td>1.0</td> </tr> </table> ICC-ASTM A262-08 (practice E)-test: O.K. Dimension/surface defects test, anti-mixing test – OK We acknowledge that the delivered products conform to the requirements of the order Ratio of reduction-35.1:1								A	B	C	D	thin	thick	thin	thick	3.0	2.0	2.0	1.0	0.0	0.0	0.0	1.0
A	B	C	D																															
thin	thick	thin	thick																															
3.0	2.0	2.0	1.0																															
0.0	0.0	0.0	1.0																															
REQUIRED		205	240	515-700	40 -	40	50	140-217	100	-																								
EFFECTIVE		295 293	319 317	568 566	59 - 60 -	58 58	77 77	167 167	220 220 220 221 221 221	-																								
Mechanical properties tested in state of delivery																																		
US - testing		yes	Results: ASTM A388/A388M-FBH1/8"; EN 10308 type 1a; class 3:OK																															
Radiation free; mercury free. No Weld or Weld repair.																																		
Date: 01.04.2021 Manager of quality assurance department - V. Kapaieva Signed:  Zaporozhye Melted and Produced in Ukraine. MELTED and MANUFACTURED PrJSC " Dnipropetsstal" Phone number +380612834255 e-mail: info@dss.com.ua http://www.dss-ua.com																																		

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