



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 АКР 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"> <thead> <tr> <th colspan="2">A</th> <th colspan="2">B</th> <th colspan="2">C</th> <th colspan="2">D</th> </tr> <tr> <th>thin</th> <th>thick</th> <th>thin</th> <th>thick</th> <th>thin</th> <th>thick</th> <th>thin</th> <th>thick</th> </tr> </thead> <tbody> <tr> <td>3.0</td> <td>2.0</td> <td>2.0</td> <td>1.0</td> <td>0.0</td> <td>0.0</td> <td>1.0</td> <td>1.0</td> </tr> </tbody> </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	thin	thick	thin	thick	3.0	2.0	2.0	1.0	0.0	0.0	1.0	1.0
A		B		C		D																																					
thin	thick	thin	thick	thin	thick	thin	thick																																				
3.0	2.0	2.0	1.0	0.0	0.0	1.0	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 " Dniprospetsstal" Phone number +380612834255 e-mail: info@dss.com.ua http://www.dss-ua.com 																																											

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