



PO#6317

2 FOEL 80

C322245

PrJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE																																																																											
	Contract No.: 20002 TECHN.PROTOCOL № 390-11 SPEC.№ 3880/PO52069 DIN EN 10088-3-05,DIN EN 10272-08,AD2000-Merkblatt W2;AD 2000-Merkblatt W10;ASTM A182/A182M-10;ASME SA-182/SA-182M-10;ASTM A276-10;ASTM A314-08,ASTM A479/A479M-10;ASME SA-479/SA-479M-10;ASTM A484/A484M-10;AMS-QQ-S-763B-06 Cond.A;AMS 5648K-07;AMS 5653F-07;ASTM A193/A193M-10GR B8M,CL1(EXC PAR 7.2); ASME SA-193/SA-193M-10 GR B8,CL 1(EXC PAR 7.3) ;NACE MR 0175-03;NACE MR 0103-10													INSPECTION CERTIFICATE EN10204/3.1 Nr. 375870 PLANT ORDER № 8014903880																																																													
		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+АКР Round 3.750in/95.25 mm L=3.740/12.262ft L=5.650m/18.525ft L=5.640/18.492ft Grade: 316/316L/1.4401/1.4404										QUANTITY: (number of pcs) <table border="0"> <tr> <td>1bund Q-961</td> <td>lb/4362kg</td> </tr> <tr> <td>1bund Q-2892</td> <td>lb/1312kg</td> </tr> <tr> <td>1bund Q-2892</td> <td>lb/1312kg</td> </tr> </table>					1bund Q-961	lb/4362kg	1bund Q-2892	lb/1312kg	1bund Q-2892	lb/1312kg																																																		
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Delivery condition solution annealed :1900° F(1040° C)water 30minutes термообработка:закалка в воду																																																																											
ANALYSIS, % <table border="1"> <thead> <tr> <th></th> <th>C</th> <th>Si</th> <th>Mn</th> <th>P</th> <th>S</th> <th>Cr</th> <th>Ni</th> <th>Mo</th> <th>Al</th> <th>Cu</th> <th>V</th> <th>W</th> <th>Ti</th> <th>Co</th> <th>Nb</th> <th>N</th> <th>Sn</th> <th>B</th> </tr> </thead> <tbody> <tr> <td>REQUIRED</td> <td><.030</td> <td><1,00</td> <td>1.20-2.00</td> <td><.040</td> <td>.015-.030</td> <td>16.50-18.00</td> <td>10.00-13.00</td> <td>2.00-2.50</td> <td><.10</td> <td><.40</td> <td><.10</td> <td><.20</td> <td><.15</td> <td><.40</td> <td><.20</td> <td><.10</td> <td></td> <td></td> </tr> <tr> <td>CAST № A10595</td> <td>.025</td> <td>.49</td> <td>1.31</td> <td>.038</td> <td>.027</td> <td>16.67</td> <td>10.22</td> <td>2.05</td> <td>.075</td> <td>.29</td> <td>.05</td> <td>.10</td> <td>.006</td> <td>.14</td> <td>.01</td> <td>.028</td> <td>.009</td> <td>.0024</td> </tr> </tbody> </table>																				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 № A10595	.025	.49	1.31	.038	.027	16.67	10.22	2.05	.075	.29	.05	.10	.006	.14	.01	.028	.009	.0024
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DIN EN 10002-1,ASTM A370-09																																																																											
MECHANICAL PROPERTIES		Yield Strength, (N/mm²) R0.2% R 1.0%		Tensile Strength, Rm, (N/mm²)		Elongation A ₅ % 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="0"> <tr> <td>A</td> <td>B</td> <td>C</td> <td>D</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>thin</td> <td>thick</td> <td>thin</td> <td>thick</td> <td>thin</td> <td>thick</td> <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> <td>0.0</td> <td>0.0</td> <td>1.0</td> <td>1.0</td> <td></td> <td></td> </tr> </table>						A	B	C	D							thin	thick	thin	thick	thin	thick	thin	thick	thin	thick	3.0	2.0	2.0	1.0	0.0	0.0	1.0	1.0																												
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REQUIRED	205	240	515-690	40 -	40	50	140-217	100	-	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																																																																	
EFFECTIVE	275 277	316 320	540 542	58 - 58 -	57 57	75 75	163 163	201 201 201 199 199 199	-																																																																		
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: 30.11.2021 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 