




ASA PCH 80334

C217991

PrJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE																																																																											
	Contract No. 20002 TECHN.PROTOCOL № 390-11 SPEC № 9033/PO43694 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, CL 1 (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													Sheets: 6 Sheet: 1 <b>INSPECTION CERTIFICATE EN10204/3.1 Nr. 334504</b> PLANT ORDER № 8014909033																																																													
	 GMS Certified	CUSTOMER <b>DSS INTERNATIONAL</b> SA Switzerland			<b>PRODUCT DESCRIPTION</b> Bars and rods of corrosion-resistant (stainless) steel hot rolled, peeled on Landgraf line. Прутки из коррозионностойких (нержавеющих) сталей горячекатаные, обточенные на линии Ландграф. <b>STEEL MAKING PROCESS: EAF+AOD</b> <b>СПОСОБ ВЫПЛАВКИ: электродуговая печь+AOP</b> Round 6 250m/18 75 mm L-5 610m/18 393B L-5 610m/18 393B <b>Grade: 316/316L/1.4401/1.4404</b>										QUANTITY: (number of pcs) <b>1bund Q-2015 lb/914 kg</b> <b>1bund Q-2015 lb/914 kg</b>																																																												
Delivery condition solution annealed :1900° F(1040° C)water 30minutes термообработка: закалка в воду																																																																											
<table border="1"> <thead> <tr> <th>ANALYSIS, %</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>&lt;.030</td> <td>&lt;1.00</td> <td>1.20-2.00</td> <td>&lt;.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>&lt;.10</td> <td>&lt;.40</td> <td>&lt;.10</td> <td>&lt;.20</td> <td>&lt;.15</td> <td>&lt;.40</td> <td>&lt;.20</td> <td>&lt;.10</td> <td></td> <td></td> </tr> <tr> <td>CAST № A06041</td> <td>.016</td> <td>.42</td> <td>1.28</td> <td>.040</td> <td>.025</td> <td>17.14</td> <td>10.27</td> <td>2.15</td> <td>.07</td> <td>.36</td> <td>.06</td> <td>.04</td> <td>.005</td> <td>.12</td> <td>.01</td> <td>.028</td> <td>.012</td> <td>.0028</td> </tr> </tbody> </table>																			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 № A06041	.016	.42	1.28	.040	.025	17.14	10.27	2.15	.07	.36	.06	.04	.005	.12	.01	.028	.012	.0028
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DIN EN 10002-1, ASTM A370-09																																																																											
MECHANICAL PROPERTIES		Yield Strength, (N mm <sup>2</sup> ) R0.2% R1.0%	Tensile Strength, Rm, (N mm <sup>2</sup> )	Elongation A <sub>5</sub> %, L: Q In 2 inches (50mm) or 4D, min. % L		Reduction of area, Z, % L	Brinell Hardness HB	Impact strength, K.V. J L Q		<b>TECHNICAL REQUIREMENTS:</b> Macrostructure – GOOD GRAIN SIZE : 5 to ASTM E 112-96(2004) Nonmetallic inclusions ASTM E 45-05 (Method A) A B C D thin thick thin thick thin thick thin thick 2.0 2.0 2.0 1.0 0.0 0.0 1.0 1.0 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-15.1:1																																																																	
REQUIRED		205 240	515-690	40 - 40	50	140-217	100	-																																																																			
EFFECTIVE		299 336	551	60 - 59	78	163	205 205 205	-																																																																			
Mechanical properties tested in state of delivery																																																																											
US - testing		yes	Results: ASTM A388/A388M-FB11/8":EN 10308 type 1atclass 3:OK																																																																								
Radiation free; mercury free. No Weld or Weld repair.										Manufacturer: PrJSC DNIPROSPETSSTAL Date: 05.06.18 <b>Manager of quality assurance department - V. Kapaieva</b> Signed:  Zaporozhye Made in Ukraine.																																																																	

05.06.2018

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