



SN 6274 4 NPS UPSTREAM FLANGE-6

C311183

PrJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE																																																																											
	Contract No.: 20002 TECHN.PROTOCOL № 390-11 SPEC № 4176/PO52377 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; ASME SA-193/SA-193M-10 GR B8, CL 1; ASTM A320/A320M-08 GR B8M, CL 1; ASME SA-320/SA-320M-10 GR B8M, CL 1; NACE MR 0175-03; NACE MR 0103-10													INSPECTION CERTIFICATE EN10204/3.1 Nr. 376539 PLANT ORDER № 8014904176																																																													
		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 + АКП Round 6.250in/158.75 mm L=4.360/14.295ft L=5.620/18.426ft L=5.610/18.393ft Grade: 316/316L/1.4401/1.4404										QUANTITY: (number of pcs) <table border="0"> <tr> <td>1bund Q-1556 lb/706 kg</td> </tr> <tr> <td>1bund Q-4012 lb/1820kg</td> </tr> <tr> <td>1bund Q-2006 lb/910 kg</td> </tr> </table>					1bund Q-1556 lb/706 kg	1bund Q-4012 lb/1820kg	1bund Q-2006 lb/910 kg																																																					
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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 № A10739</td> <td>.023</td> <td>.42</td> <td>1.40</td> <td>.038</td> <td>.027</td> <td>16.97</td> <td>10.32</td> <td>2.04</td> <td>.068</td> <td>.36</td> <td>.06</td> <td>.04</td> <td>.005</td> <td>.18</td> <td>.01</td> <td>.029</td> <td>.010</td> <td>.0023</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 № A10739	.023	.42	1.40	.038	.027	16.97	10.32	2.04	.068	.36	.06	.04	.005	.18	.01	.029	.010	.0023
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DIN EN 10002-1, ASTM A370-09																																																																											
MECHANICAL PROPERTIES		Yield Strength, (N/mm²) <small>R0.2% R 1.0%</small>		Tensile Strength, Rm, (N/mm²)		Elongation <small>A₅ % L Q</small>		Reduction of area, Z % L		Brinell Hardness HB		Impact strength, KV, J <small>L Q</small>																																																															
REQUIRED		205 240		515-700		40 - 40		50		140-217		100																																																															
EFFECTIVE		292 324 294 327		565 568		60 - 60 59 59		79 79		167 167		211 211 207 207 207																																																															
TECHNICAL REQUIREMENTS: 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																																																																											
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: 31.12.2021 Manager of quality assurance department - V. Kapateva 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																																																																											