




ИТ# A05803

C212979

PrJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE																																																																											
	Contract No.: 20002 TECHN.PROTOCOL № 390-11 SPEC.№8367/PO43227 DIN EN 10088-3-05,DIN EN 10272-08,DIN EN 10222-5-00,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 B8,CL1;NACE MR 0175-03;NACE MR 0103-10													Sheets:6 Sheet: 3 INSPECTION CERTIFICATE EN10204/3.1 Nr.332059 PLANT ORDER № 8014908367																																																													
	 GMS Certified	CUSTOMER DSS INTERNATIONAL SA Switzerland			PRODUCT DESCRIPTION Bars and rods of corrosion-resistant (stainless) steel forged, peeled.Прутки из коррозионностойких (нержавеющих) сталей кованные, обточенные. STEEL MAKING PROCESS: EAF+AOD СПОСОБ ВЫПЛАВКИ:Электродуговая печь+АКР Round 11.000in/279.40 mm L=13.836 ft/4.220m L=13.557 ft/4.135m Grade: 316/316L/1.4401/1.4404										QUANTITY: 1bund Q-4643 lb/2106 kg (number of pcs) 1bund Q-4563 lb/2070 kg Delivery condition solution annealed :1976°F(1080°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><.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 № A05803</td> <td>.025</td> <td>.42</td> <td>1.40</td> <td>.038</td> <td>.022</td> <td>16,98</td> <td>10.39</td> <td>2.09</td> <td>.066</td> <td>.27</td> <td>.05</td> <td>.06</td> <td>.006</td> <td>.09</td> <td>.023</td> <td>.030</td> <td>.0088</td> <td>.0022</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 № A05803	.025	.42	1.40	.038	.022	16,98	10.39	2.09	.066	.27	.05	.06	.006	.09	.023	.030	.0088	.0022
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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		Reducti on 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>A</th> <th>B</th> <th>C</th> <th>D</th> </tr> </thead> <tbody> <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> </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/Подтверждаем, что поставленная продукция соответствует требованиям заказа						A	B	C	D	thin	thick	thin	thick	3.0	2.0	2.0	1.0	0.0	0.0	0.0	1.0																																								
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REQUIRED	205	240	515-690	45 35	40	50	140-217	100	60																																																																		
EFFECTIVE	273	305	564	61 52	60	77	167	227 227 227	61 61 61																																																																		
Mechanical properties tested in state of delivery																																																																											
US - testing		yes	Results: ASTM A388/A388M-FBH1/5";EN 10228-4 type 1a;class 3:OK																																																																								
Radiation free; mercury free. No Weld or Weld repair.																																																																											
Manufacturer:PrJSC DNIPROSPETSSTAL Date: 30.03.18 Manager of quality assurance department - V. Kapaieva Signed:  Zaporozhye Made in Ukraine.																																																																											