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PrJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE																																									
	Contract No.: 20002 TECHN.PROTOCOL № 210-11 SPEC.№ 4008/PO5757 ASTM A182/A182M-16a; ASME SA-182/SA-182M-17; ASTM A276-17; ASTM A314-15; ASTM A479/A479M-17; ASME SA-479/SA-479M-17; ASTM A484/A484M-18; AMS-QQ-S-763D-15 Cond.A; AMS 5648M-16; AMS 5653H-12; ASTM A193/A193M-16 GR B8M,CL1; ASME SA-193/SA-193M-17 GR B8M,CL1; ASTM A320/A320M-17b GR B8M,CL 1; ASME SA-320/SA-320M-17 GR B8M,CL 1; ANSI/NACE MR 0175/ISO 15156-3-15; ANSI/NACE MR 0103/ISO 17945-15												INSPECTION CERTIFICATE EN10204/3.1 Nr.349859 PLANT ORDER № 8015204008																												
	 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 19.000in/482.60 mm L=10.820m/3.300m Grade: 316/F316/316L/F316L									QUANTITY: (number of pcs) 1bund Q-10873 lb/4932 kg  Delivery condition solution annealed :1900-2010 <sup>o</sup> F(1040-1100 <sup>o</sup> C)/water термообработка:закалка в воду																												
ANALYSIS, %																																									
	C	Si	Mn	P	S	Cr	Ni	Mo	Al	Cu	V	W	Ti	Co	Nb	N																									
REQUIRED	<.030	<1,00	1.25-2.00	<.040	.020-.030	16.00-18.00	10.00-14.00	2.00-3.00	<.10	<.40	<.10	<.20	<.15	<.40	<.20	<.10																									
CAST № A07668	.020	.43	1.55	.038	.020	16.42	10.28	2.06	.06	.29	.06	.06	.005	.13	.01	.030																									
MECHANICAL PROPERTIES	Yield Strength, Ksi(N/mm <sup>2</sup> ) Re (R <sub>m</sub> )	Tensile Strength, Rm,ksi (N/mm <sup>2</sup> )	Elongation ASTM A370-09 In2inches (50mm) or 4D	Reduction of area, Z, %	Brinell Hardness HB	Impact strength, KV, J	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>2.5</td> <td>2.0</td> <td>2.0</td> <td>2.0</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-4,6:1											A		B		C		D		thin	thick	thin	thick	thin	thick	thin	thick	2.5	2.0	2.0	2.0	0.0	0.0	1.0	1.0
							A		B		C		D																												
thin	thick	thin	thick	thin	thick	thin	thick																																		
2.5	2.0	2.0	2.0	0.0	0.0	1.0	1.0																																		
REQUIRED	30(207)	75 (517)	45	50	140-223	100																																			
EFFECTIVE	43.5 (299)	81.1(557)	60	78	163	208																																			
Mechanical properties tested in state of delivery																																									
US - testing	yes	Results: SEP 1921, group 3/class.Cc - OK																																							
Radiation free; mercury free. No Weld or Weld repair.																																									
Date: 29.09.19 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																																									

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