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PJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE

	Contract No.: 50005 TECHN.PROTOCOL № 210-11 SPEC.№7695/P028087-ED 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-10 GR B8M,CL1;ASME SA-193/SA-193M-10GR B8M,CL1;ASTM 320/A320M-08GR B8M,CL 1;ASME SA-320/SA-320M-10 GR B8M,CL 1;NACE MR 0175-03;NACE MR 0103-10	Sheets:8 Sheet: 5 QUALITY CERTIFICATE EN10204/3.1 Nr.266179 PLANT ORDER № 8014907695
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 GMS Certified	CUSTOMER DSS INTERNATIONAL SA Switzerland	PRODUCT DESCRIPTION Bars and rods of corrosion-resistant (stainless) steel forged, peeled. Прутки из коррозионностойких (нержавеющих) сталей кованые, обточенные. STEEL MAKING PROCESS: EAF+AOD СПОСОБ ВЫПЛАВКИ: Электродуговая печь+АКР Round 11.000in/279.40 mm L=4.040m/13.246ft L=3.730m/12.230ft Grade: 316/F316/316L/F316L	QUANTITY: 1bund Q-4449 lb/2018 kg (number of pcs) 1bund Q-4123 lb/1870 kg Delivery condition solution annealed :1922°F(1050°C)/water 30 minutes термообработка:закалка в воду
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ANALYSIS, %	C	Si	Mn	P	S	Cr	Ni	Mo	Al	Cu	V	W	Ti	Co	Nb	N ₂		
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 № 98400	.026	.46	1.31	.036	.026	16.92	10.20	2.03	.077	.29	.05	.09	.005	.09	.01	.025		

ASTM A370							TECHNICAL REQUIREMENTS: Macrostructure – GOOD GRAIN SIZE : 5 to ASTM E 112-96(2004) Nonmetallic inclusions ASTM E 45-05 (Method A) <table style="width:100%; text-align: center;"> <tr> <td>A</td><td>B</td><td>C</td><td>D</td> </tr> <tr> <td>thin</td><td>thick</td><td>thin</td><td>thick</td> </tr> <tr> <td>2.0</td><td>1.5</td><td>1.5</td><td>1.0</td> </tr> <tr> <td>0.0</td><td>0.0</td><td>0.0</td><td>1.0</td> </tr> </table> ICC-ASTM A262-08 (practice E)-test: O.K. Dimension/surface defects test, anti-mixing test – OK	A	B	C	D	thin	thick	thin	thick	2.0	1.5	1.5	1.0	0.0	0.0	0.0	1.0
A	B	C	D																				
thin	thick	thin	thick																				
2.0	1.5	1.5	1.0																				
0.0	0.0	0.0	1.0																				
MECHANICAL PROPERTIES	Yield Strength, Ksi(N/mm ²) Re (R _{eL})	Tensile Strength, Rm,ksi (N /mm ²)	Elongation A ₅ %	Reduction of area, Z %	Brinell Hardness HB	Impact strength, KV, J																	
REQUIRED	36(248)	75 (515)	45	50	140-223	100																	
EFFECTIVE	37.6(258)	80.1(550)	58	75	163	202																	
Mechanical properties tested in state of delivery																							

US - testing	yes	Results: «ASTM A388 FBH 1/5 " »	Manufacturer: PJSC DNIPROSPETSSTAL Date: 30.09.12 Manager of quality assurance department - V. Kapaieva Signed:  Zaporozhye Made in Ukraine.
Radiation free; mercury free. No Weld or Weld repair.			

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