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PJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE																			
	Contract No.: 50005 TECHN.PROTOCOL № 210-11 SPEC.№ 6687/P027119-ED ASTM A182/A182M-10;ASME SA-182/SA-182M-10;ASTM A276-10;ASTM A314-08;ASTM A479A479M-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 (EXC PAR 7.2);ASME SA-193/SA-193M-10GR B8M,CL1(EXC PAR 7.3);NACE MR 0175-03;NACE MR 0103-10											Sheets:7 Sheet: 2 QUALITY CERTIFICATE EN10204/3.1 Nr.264087 PLANT ORDER № 8014906687							
	 GMS Certified			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+АКР Round 6.25in/158.75mm L=3.400-5.500m/11,148-18.033ft Grade: 316/F316/316L/F316L.					QUANTITY: 1bund Q-3131 lb/1434 kg (number of pcs) 1bund Q-3126 lb/1418 kg Delivery condition Solution annealed :1900-2010°F(1040-1100°C)/water/ термообработка: закалка в воду/							
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 № 98075 <i>of</i>		.030	.45	1.37	.040	.025	16.95	10.15	2.05	.074	.23	.05	.11	.005	.08	.012	.031		
ASTM A370-08a																			
MECHANICAL PROPERTIES		Yield Strength, Ksi(N/mm ²) Re (R _{e2})	Tensile Strength, Rm,ksi (N/mm ²)	Elongation A ₅ %	Reduction of area, Z %	Brinell Hardness HB	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 2.5 2.0 1.5 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												
REQUIRED		36(248)	75 (515)	45	50	140-223	100												
EFFECTIVE		40.8(280)	80.8(555)	63	77	163	279												
Mechanical properties tested in state of delivery																			
US - testing		yes	Results: SEP 1921,group 3/class Dd - OK ASTM A-388 FBH 1/8 (3.175mm)																
Radiation free; mercury free. No Weld or Weld repair.																			
Manufacturer: PJSC DNIPROSPETSSTAL Date: 17.07.12 Manager of quality assurance department - V. Kapaieva Signed: <i>[Signature]</i> Zaporozhye Made in Ukraine.																			