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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 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 (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: 16 Sheet: 3 QUALITY CERTIFICATE EN10204/5.1 Nr.262790 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 коррозионноустойчивых (нержавеющих) сталей горячекатаные, обточенные на линии «Ландграф». STEEL MAKING PROCESS: EAF+AOD СПОСОБ ВЫПЛАВКИ: Электродуговая печь+АКР Round 3.75in/95.25 mm L=3.400-5.500m/11.148-18.033ft Grade: 316/F316/316L/F316L							QUANTITY: 1bund Q-1235 lb/560 kg (number of pcs) 1bund Q-4092 lb/1856 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 № 97928 <i>afg</i>		.020	.37	1.27	.033	.024	16.78	10.17	2.07	.063	.22	.04	.13	.005	.09	.02	.030		
ASTM A370-08a																			
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 ₂ , J		TECHNICAL REQUIREMENTS: Macrostructure – GOOD GRAIN SIZE: 6 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 3.0 2.0 2.0 1.5 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		41.5(285)	81.2(558)	60	75	167	262												
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: 07.06.12 Manager of quality assurance department - V. Kapaieva Signed:  Zaporozhye Made in Ukraine.									