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<b>PJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE</b>																				
		Contract No.: 50005 TECHN.PROTOCOL № 210-11 SPEC.№3602/P024728-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 A320/A320M-08GR B8M,CL 1;ASME SA-320/SA-320M-10 GR B8M,CL 1;NACE MR 0175-03;NACE MR 0103-10										Sheets:7 Sheet: 1 <b>QUALITY CERTIFICATE EN10204/3.1 Nr.253305</b> PLANT ORDER № 8014903602								
		<b>CUSTOMER</b> DSS INTERNATIONAL SA Switzerland			<b>PRODUCT DESCRIPTION</b> Bars and rods of corrosion-resistant (stainless) steel forged, peeled .Прутки из коррозионностойких (нержавеющих) сталей кованные, обточенные. <b>STEEL MAKING PROCESS: EAF+AOD</b> <b>СПОСОБ ВЫПЛАВКИ:Электродуговая печь+АКР</b> Round 15.750in/400.05 mm L=3.410m/11.180ft <b>Grade: 316/F316/316L/F316L</b>										<b>QUANTITY:</b> (number of pcs) 1bund Q-7749 lb/3515 kg  Delivery condition solution annealed :1900-2010 <sup>o</sup> F(1040-1100 <sup>o</sup> C)/water термообработка:закалка в воду					
QMS Certified																				
ANALYSIS, %		C	Si	Mn	P	S	Cr	Ni	Mo	Al	Cu	V	W	Ti	Co	Nb	N <sub>2</sub>			
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 № 96900		.022	.60	1.80	.037	.026	16,82	10.18	2.03	.055	.26	.05	.10	.081	.09	.01	.0290			
ASTM A370-08a																				
MECHANICAL PROPERTIES		Yield Strength, Ksi(N/mm <sup>2</sup> ) Re (R <sub>e2</sub> )	Tensile Strength, Rm,ksi (N /mm <sup>2</sup> )	Elongation A <sub>5</sub> %	Reduction of area, Z %	Brinell Hardness HB	Impact strength, KV, J		<b>TECHNICAL REQUIREMENTS:</b> 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 2.5 2.0 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		49.5(340)	81.7(561)	57	73	167	204													
Mechanical properties tested in state of delivery																				
US - testing		yes	Results: SEP 1921,group 3/class Cc - O.K.										Manufacturer: PJSC DNIPROSPETSSTAL Date: 03.10.11 Manager of quality assurance department - V. Kapaieva Signed:							
Radiation free; mercury free. No Weld or Weld repair.																				
Zaporozhye Made in Ukraine.																				