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## PJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYYE, UKRAINE

	Contract No.: 50005 TECHN.PROTOCOL № 390-11 SPEC.№ 0231/P030022-ED DIN EN 10088-3-05, DIN EN 10272-08, AD2000-Merkblatt W2; AD 2000-Merkblatt W10; 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-10GR B8M, CL1 (EXC PAR 7.2); ASME SA-193/SA-193M-10 GR B8, CL 1 (EXC PAR 7.3); NACE MR 0175-03; NACE MR 0103-10										Sheets:8 Sheet: 2 <b>QUALITY CERTIFICATE EN10204/3.1 Nr.273199</b> PLANT ORDER № 8014900231							
	 QMS Certified		<b>CUSTOMER</b> <b>DSS INTERNATIONAL</b> <b>SA Switzerland</b>										<b>PRODUCT DESCRIPTION</b> Bars and rods of corrosion-resistant (stainless) steel hot rolled, peeled on Landgraf line. Прутки из коррозионностойких (нержавеющих) сталей горячекатаные, обточенные на линии Ландграф. <b>STEEL MAKING PROCESS: EAF+AOD</b> <b>СПОСОБ ВЫПЛАВКИ:</b> Электродуговая печь+AOP Round 4.250in/107.95 mm L=5.510m/18.066ft <b>Grade: 316/316L/1.4404/1.4404</b>		<b>QUANTITY:</b> (number of pcs) <b>1bund Q-1812 lb/822 kg</b>			
<b>ANALYSIS, %</b>																		
	C	Si	Mn	P	S	Cr	Ni	Mo	Al	Cu	V	W	Ti	Co	Nb	N <sub>2</sub>	Sn	B
REQUIRED	<.030	<1,00	1.20-2.00	<.040	.015-.030	16.50-18.00	10.00-13.00	2.00-2.50	<.10	<.40	<.10	<.20	<.15	<.40	<.20	<.10		
CAST № 99285	.020	.40	1.35	.035	.030	16.75	10.21	2.12	.066	.28	.05	.15	.005	.06	.014	.030	.010	.001
DIN EN 10002-1, ASTM A370-09																		
<b>MECHANICAL PROPERTIES</b>	<b>Yield Strength, (N/mm<sup>2</sup>)</b> R0.2% R 1.0%		<b>Tensile Strength, Rm, (N/mm<sup>2</sup>)</b>	<b>Elongation</b> A, % L Q In 2 inches (50mm) or 4D, min, % L		<b>Reduction of area, Z % L</b>	<b>Brinell Hardness HB</b>	<b>Impact strength, KV, J</b> L Q										
	REQUIRED	205	240	515-700	40	40	50	140-217	100									
	EFFECTIVE	350	393	595	55	53	77	174	285 280 291									
Mechanical properties tested in state of delivery																		
US - testing	yes	Results: ASME SA-388/SA-388M-10 (ASTM A 388/A 388M-09)-FBH1/8"; EN 10308 type 1a; class 3:OK																
Radiation free; mercury free. No Weld or Weld repair.																		
Manufacturer: PJSC DNIPROSPETSSTAL Date: 27.05.13 <b>Manager of quality assurance department - V. Kapaieva</b> Signed:  Zaporozhye Made in Ukraine.																		