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**PrJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYYE, UKRAINE**

	Contract No.: 20002 TECHN. PROTOCOL № 390-11 SPEC. № 9398/PO44029 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-10 GR 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: 5 Sheet: 5 <b>INSPECTION CERTIFICATE EN10204/3.1 Nr. 335238</b> PLANT ORDER № 8014909398																					
 QMS Certified	<b>CUSTOMER</b> DSS INTERNATIONAL SA Switzerland			<b>PRODUCT DESCRIPTION</b> Bars and rods of corrosion-resistant (stainless) steel hot rolled, peeled on Landgraf line. Прутки из коррозионностойких (пержавеющих) сталей горячекатаные, обточенные на линии Ландаграф. <b>STEEL MAKING PROCESS:</b> EAF+AOD <b>СПОСОБ ВЫПЛАВКИ:</b> Электродуговая печь+АКР Round 3.000in/76.20 mm L=5.570m/18.262ft 1.5 570m/18.262ft L=5.570m/18.262ft <b>Grade: 316/316L/1.4401/1.4404</b>							QUANTITY: (number of pcs) <b>1bund Q-3192 lb/1448 kg</b> <b>1bund Q-2280 lb/1034 kg</b> <b>1bund Q-1371 lb/622 kg</b>																					
ANALYSIS, %													C	Si	Mn	P	S	Cr	Ni	Mo	Al	Cu	V	W	Ti	Co	Nb	N	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 № A06087													.015	.42	1.35	.039	.026	16.86	10.18	2.05	.073	.33	.06	.06	.005	.12	.01	.028	.011	.0022		
DIN EN 10002-1, ASTM A370-09													MECHANICAL PROPERTIES		Yield Strength, (N/mm <sup>2</sup> ) R0.2% R1.0%	Tensile Strength, Rm, (N/mm <sup>2</sup> )	Elongation		Reduction of area, Z, % L	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 We acknowledge that the delivered products conform to the requirements of the order Ratio of reduction-50.9:1									
REQUIRED																	205	240			515-690	40									-	40
EFFECTIVE															290	310	596	61	-	58	77	174									204	204
US - testing													yes	Results: ASTM A388/A388M-FBH1/8"; EN 10308 type 1a; class 3:OK								Manufacturer: PrJSC DNIPROSPETSSTAL Date: 26.06.18 <b>Manager of quality assurance department</b> - V. Kapaieva Signed: Zaporozhye Made in Ukraine. 										
Radiation free; mercury free. No Weld or Weld repair.																																

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