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PrJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE

	<p>Contract No.: 20002 TECHN.PROTOCOL № 390-11 SPEC.№0623/P050062 DIN EN 10088-3-05,DIN EN 10272-08,DIN EN 10222-5-00;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; ASME SA-193/SA-193M-10 GR B8,CL 1 ;ASTM A320/A320M-08 GR B8M,CL 1;ASME SA-320/SA-320M-10 GR B8,CL1;NACE MR 0175-03;NACE MR 0103-10</p>	<p>INSPECTION CERTIFICATE EN10204/3.1 Nr.366188 PLANT ORDER № 8014900623</p>	
	<p>CUSTOMER DSS INTERNATIONAL SA Switzerland</p>	<p>PRODUCT DESCRIPTION Bars and rods of corrosion-resistant (stainless) steel forged, peeled.Прутки из коррозионностойких (нержавеющих) сталей кованные, отбоченные. STEEL MAKING PROCESS: EAF+AOD СПОСОБ ВЫПЛАВКИ:Электродуговая печь+АКР Round 13.0in/330.20 mm L=10.836 ft/3.305m; Grade: 316/316L/1.4401/1.4404</p>	<p>QUANTITY: 1bund Q-5084 lb/2306 kg (number of pcs)</p> <p>Delivery condition solution annealed :1922° F(1050° C)water 30minutes термообработка:закалка в воду</p>

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 № A09456	.020	.51	1.24	.036	.023	16.78	10.26	2.10	.069	.31	.06	.06	.005	.16	.01	.035	.0145	.0025

DIN EN 10002-1,ASTM A370-09

MECHANICAL PROPERTIES	Yield Strength, (N/mm ²) R0.2% R 1.0%		Tensile Strength, Rm, (N/mm ²)	Elongation		Reducti on of area, Z % L	Brinell Hardness HB	Impact strength, KV, J	
	L	Q		A5% L Q	In 2 inches (50mm) or 4D,min,% L			L	Q
REQUIRED	205	240	515-690	45 35	40	50	140-217	100	60
EFFECTIVE	285	320	562	62 54	60	77	167	230 230 230	61 61 61

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
2.5	2.0	2.0	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/Подтверждаем, что поставленная продукция соответствует требованиям заказа
 Ratio of reduction-6.2:1

Mechanical properties tested in state of delivery

US - testing yes Results: ASTM A388/A388M)-FBH1/5";EN 10228-4 type Ia;class 3:OK

Radiation free; mercury free. No Weld or Weld repair.

Date: 02.02.21 **Manager of quality assurance department**
 Signed: - V. Kapaieva
 Zaporozhye
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