


SN #6421

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

 Certified by <b>TUVE</b> TRANSCONTINENTAL GMS Certified	Contract No.: 20002 TECHN.PROTOCOL № 390-11 SPEC.№ 5008/PO52377 DIN EN 10088-3-05, DIN EN 10272-08, AD 2000-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); <b>NACE MR 0175-03</b> ; NACE MR 0103-10		Sheets:6 Sheet: 3 <b>INSPECTION CERTIFICATE EN10204/3.1 Nr. 377844</b> PLANT ORDER № 8014905008																
	<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:</b> EAF+AOD <b>СПОСОБ ВЫПЛАВКИ:</b> Электродуговая печь+АКР Round 2.250in/57.15 mm L=4.660/15.279ft L=5.640/18.492ft L=5.640/18.492ft <b>Grade: 316/316L/1.4401/1.4404</b>		<b>QUANTITY:</b> (number of pcs) <b>1bund Q-1671 lb/758 kg</b> <b>1bund Q-3108 lb/1410kg</b> <b>1bund Q-3629 lb/1646kg</b>														
<b>ANALYSIS, %</b>		C	Si	Mn	P	S	Cr	Ni	Mo	Al	Cu	V	W	Ti	Co	Nb	N	Sn	B
<b>REQUIRED</b>		<.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		
<b>CAST</b> <b>№ A10843</b>		.023	.51	1.48	.037	.022	16.95	10.23	2.05	.072	.22	.05	.06	.005	.16	.01	.036	.0061	.0021
DIN EN 10002-1, ASTM A370-09																			
<b>MECHANICAL PROPERTIES</b>	Yield Strength, (N/mm <sup>2</sup> ) R0.2% R 1.0%	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 2.0 2.0 2.0 1.0 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-97.5:1									
			A <sub>5</sub> %	In 2 inches (50mm) or 4D, min, % L			L	Q	L										Q
			REQUIRED	205			240	40	-										40
EFFECTIVE	280 286	311 314	570 576	61 62	- -	59 59	76 78	167 167	215 215 215 221 221 221	-									
Mechanical properties tested in state of delivery																			
US - testing		yes	Results: ASTM A388/A388M-FBH1/8"; EN 10308 type 1a; class 3:OK																
Radiation free; mercury free. No Weld or Weld repair.										Date: 31.05.2022 <b>Manager of quality assurance</b> department - V. Kapaieva Signed: Zaporozhye Melted and Produced in Ukraine. MELTED and MANUFACTURED PrJSC " Dnipropetsstal" Phone number +380612834255 e-mail: info@dss.com.ua http://www.dss-ua.com									

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