




# HT# A06221

C220973

## PrJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE

	<b>Contract No.: 20002</b> <b>TECHN.PROTOCOL № 390-11 SPEC.№ 9728/PO44311</b> 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; 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		<b>Sheets: 8</b> <b>Sheet: 2</b> <b>INSPECTION CERTIFICATE EN10204/3.1 Nr. 336112</b> <b>PLANT ORDER № 8014909728</b>
	 GMS Certified	<b>CUSTOMER</b> <b>DSS INTERNATIONAL</b> SA Switzerland	<b>PRODUCT DESCRIPTION</b> Bars and rods of corrosion-resistant (stainless) steel hot rolled, peeled on Landgraf line. Прутки из коррозионноустойчивых (нержавеющих) сталей горячекатаные, обработанные на линии Ландграф. <b>STEEL MAKING PROCESS: EAF+AOD</b> <b>СПОСОБ ВЫПЛАВКИ: Электроплавочная печь+АКР</b> Round 6.250in/158.75 mm L=18.499/5.630m L=18.492/5.640m Grade: 316/316L/1.4401/1.4404
		<b>QUANTITY:</b> 1bund Q-2019 lb/916 kg (number of pcs)                      1bund Q-4048 lb/1836 kg	
		<b>Delivery condition</b> solution annealed : 1900°F(1040°C)water 30minutes термообработка:закалка в воду	

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 № A06221	.018	.38	1.35	.040	.024	16,77	10.20	2.07	.068	.32	.05	.06	.068	.13	.01	.026	.011	.0024

DIN EN 10002-1, ASTM A370-09										TECHNICAL REQUIREMENTS:											
MECHANICAL PROPERTIES	Yield Strength, (N/mm <sup>2</sup> ) R <sub>0.2</sub> R <sub>1.0</sub>		Tensile Strength, R <sub>m</sub> (N/mm <sup>2</sup> )	Elongation		Reducti on of area, Z %	Brinell Hardness HB	Impact strength, KV, J		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 3.0 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-15:1:1											
	L	Q		A, %	In 2 inches (50mm) or 4D, min, %			L	L											Q	Q
REQUIRED	205	240	515-690	40 -	40	50	140-223	100	-												
EFFECTIVE	298 302	336 342	559 553	60 - 59 -	59 58	78 78	163 163	204 208	204 208	204 208	-										
Mechanical properties tested in state of delivery										Manufacturer: PrJSC DNIPROSPETSSTAL Date: 23.07.18    Manager of quality assurance department - V. Kapaieva Signed:  Zaporozhye Made in Ukraine.											
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.																					

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