




C240614

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

		Contract No.: 20002 TECHN.PROTOCOL № 390-11 SPEC.№2426/PO45858 DIN EN 10088-3-05, DIN EN 10272-08, DIN EN 10222-5-00, 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										Sheets: 7 Sheet: 7 <b>INSPECTION CERTIFICATE EN10204/3.1 Nr.344691</b> PLANT ORDER № 8014902426								
 GMS Certified		<b>CUSTOMER</b> <b>DSS INTERNATIONAL</b> <b>SA Switzerland</b>			<b>PRODUCT DESCRIPTION</b> Bars and rods of corrosion-resistant (stainless) steel forged, peeled. Прутки из коррозионноустойчивых (нержавеющих) сталей кованные, обточенные. <b>STEEL MAKING PROCESS: EAF+AOD</b> <b>СПОСОБ ВЫПЛАВКИ: Электродуговая печь+АКР</b> Round 8.500in/215.90 mm L=15.049 ft/4.590m L=15.951 ft/4.865m L=15.754 ft/4.805m <b>Grade: 316/316L/1.4401/1.4404</b>							<b>QUANTITY:</b> (number of pcs) <b>1bund Q-3064 lb/1390 kg</b> <b>1bund Q-3250 lb/1474 kg</b> <b>1bund Q-3205 lb/1454 kg</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>№ A07113</b>		.025	.37	1.33	.040	.027	16.76	10.25	2.07	.076	.28	.05	.06	.008	.09	.01	.023	.0089	.0027	
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		Reducti on 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/Подтверждаем, что поставленная продукция соответствует требованиям заказа Ratio of reduction-6.93:1								
						A <sub>5</sub> %	L Q			In 2 inches (50mm) or 4D, min, % L	L									
<b>REQUIRED</b>		205	240	515-690	45 35	40	50	140-217	100	60										
<b>EFFECTIVE</b>		281 284	310 312	589 591	61 54 60 55	58 58	73 75	170 170	175 175 175 180 180 180	64 64 64 67 67 67										
Mechanical properties tested in state of delivery																				
US - testing		yes	Results: ASTM A388/A388M-FBH1/8"; EN 10228-4 type 1a; class 3:OK																	
Radiation free; mercury free. No Weld or Weld repair.										Manufacturer: PrJSC DNIPROSPETSSTAL Date: 23.04.19 <b>Manager of quality assurance department - V. Kapaieva</b> Signed:  Zaporozhye Made in Ukraine.										

ANS