



HTA A05923

C214820


PrJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYYE, UKRAINE

	Contract No.: 20002 TECHN.PROTOCOL № 390-11 SPEC.№8683/PO43415-ED 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: INSPECTION CERTIFICATE EN10204/3.1 Nr.333373 PLANT ORDER № 8014908683
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 <p>GMS Certified</p>	CUSTOMER DSS INTERNATIONAL SA Switzerland	PRODUCT DESCRIPTION Bars and rods of corrosion-resistant (stainless) steel forged, peeled. Прутки из коррозионноустойчивых (нержавеющих) сталей кованные, обточенные. STEEL MAKING PROCESS: EAF+AOD СПОСОБ ВЫПЛАВКИ: Электродуговая печь+АКР Round 8.500in/215.90 mm L=13.279 ft/4.050m L=15.049 ft/4.590m L=14.820 ft/4.520m Grade: 316/316L/1.4401/1.4404	QUANTITY: (number of pcs) 1bund Q-2703 lb/1226 kg 1bund Q-3056 lb/1386 kg 1bund Q-2989 lb/1356 kg
	Delivery condition solution annealed : 1940° F(1060° C) water 25minutes 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 № A05923	.020	.32	1.25	.038	.027	16.87	10.28	2.09	.064	.27	.04	.07	.005	.09	.01	.028	.010	.0024

DIN EN 10002-1, ASTM A370-09										TECHNICAL REQUIREMENTS:																																																	
MECHANICAL PROPERTIES	Yield Strength, (N/mm ²) R0.2% R 1.0%		Tensile Strength, Rm, (N/mm ²)	Elongation		Reduction of area, Z % L	Brinell Hardness HB	Impact strength, KV, J																																																			
	L	Q		As %	In 2 inches (50mm) or 4D, min, % L			L	Q																																																		
REQUIRED	205	240	515-690	45	35	40	50	140-223	100	60	Macrostructure – GOOD GRAIN SIZE : 5 to ASTM E 112-96(2004) Nonmetallic inclusions ASTM E 45-05 (Method A) <table border="0"> <tr> <td>A</td><td>B</td><td>C</td><td>D</td><td colspan="7"></td> </tr> <tr> <td>thin</td><td>thick</td><td>thin</td><td>thick</td><td>thin</td><td>thick</td><td>thin</td><td>thick</td><td>thin</td><td>thick</td><td colspan="5"></td> </tr> <tr> <td>3.0</td><td>2.0</td><td>3.0</td><td>2.0</td><td>0.0</td><td>0.0</td><td>1.0</td><td>1.0</td><td colspan="5"></td> </tr> </table>										A	B	C	D								thin	thick	thin	thick	thin	thick	thin	thick	thin	thick						3.0	2.0	3.0	2.0	0.0	0.0	1.0	1.0					
A	B	C	D																																																								
thin	thick	thin	thick	thin	thick	thin	thick	thin	thick																																																		
3.0	2.0	3.0	2.0	0.0	0.0	1.0	1.0																																																				
EFFECTIVE	268 270	308 310	568 569	59	48	58	80 80	167 167	193 193 193 190 190 190	83 83 83 80 80 80	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																																																

Mechanical properties tested in state of delivery			Manufacturer: PrJSC DNIPROSPETSSTAL Date: 03.05.18 Manager of quality assurance department - V. Kapaieva Signed: Zaporozhye Made in Ukraine.									
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.												