



ASA P# 80290 W# 7351 CPA 3F0E05 80-10 pcs
C204658


PrJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE

	Contract No.: 20002 TECHN.PROTOCOL № 390-11 SPEC.№ 6956/PO42393-ED 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	INSPECTION CERTIFICATE EN10204/3.1 Nr. 328754 PLANT ORDER № 8014906956
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 QMS Certified	CUSTOMER DSS INTERNATIONAL SA Switzerland	PRODUCT DESCRIPTION Bars and rods of corrosion-resistant (stainless) steel hot rolled, peeled on Landgraf line. Прутки из коррозионностойких (нержавеющих) сталей горячекатаные, обточенные на линии Ландграф. STEEL MAKING PROCESS: EAF+AOD СПОСОБ ВЫПЛАВКИ: Электродуговая печь+АКР Round 5.250in/133.35 mm L=5.560m/18.230ft L=5.640m/18.492ft L=5.640m/18.492ft Grade: 316/316L/1.4401/1.4404	QUANTITY: (number of pcs) 1bund Q-4171 lb/1892 kg 1bund Q-1411 lb/640 kg 1bund Q-1411 lb/640 kg
	Delivery condition 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 № A05401	.018	.52	1.28	.040	.024	17,01	10.27	2.06	.071	.34	.06	.04	.01	.15	.011	.034	.010	.0023

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		Reducti on of area, Z % L	Brinell Hardness HB	Impact strength, KV, J											
	L	Q		A5 %	In 2 inches (50mm) or 4D,min,% L			L	Q										
REQUIRED	205	240	515-690	40 -	40	50	140-223	100	-	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									
EFFECTIVE	290 297	313 315	568 571	60 - 60 -	59 59	79 78	167 167	205 205 205 201 201 201	-	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									

Mechanical properties tested in state of delivery			Manufacturer: PrJSC DNIPROSPETSSTAL Date: 26.12.17 Manager of quality assurance department - V. Kapaieva Signed:  Zaporozhye Made in Ukraine.									
US - testing	yes	Results: ASME SA-388/SA-388M-10(ASTM A 388/A 388M-09)-FBH/8"; EN 10308 type 1a; class 3:OK	Radiation free; mercury free. No Weld or Weld repair.									

June 20/19