

ASA
PO 77758
WO 5876

CPA
4 FDE 40

98175

PJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE

	Contract No.: 50005 TECHN.PROTOCOL № 390-11 SPEC.№ 6943/P019348-TO 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	Sheets:9 Sheet: 7 QUALITY CERTIFICATE EN10204/3.1 Nr.265378 PLANT ORDER № 8014906943
--	--	---

 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 коррозионноустойчивых (нержавеющих) сталей горячекатаные, обточенные, на линии Ландграф. STEEL MAKING PROCESS: EAF+AOD СПОСОБ ВЫПЛАВКИ: Электродуговая печь+АКР Round 6.250in/158,75 mm L=5,060m/16.590ft, L=4.940m/16.197ft, Grade: 316/316L/1.4401/1.4404	1bund Q-5317 lb/2412 kg 1bund Q-1759 lb/798 kg QUANTITY: (number of pcs) 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 ₂	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 № 98175 ✓	.027	.47	1.29	.038	.025	16,73	10.20	2.01	.076	.27	.04	.13	.005	.087	.01	.026	.0098	.0011

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		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 2.5 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																			
	L	Q		In 2 inches (50mm) or 4D,min,% L	L			L	L											Q									
REQUIRED	205	240	515-700	40	40	50	140-223	100																					
EFFECTIVE	275 271	306 303	553 551	61 61	59 59	79 79	163 163	267 272 260 265 277 270																					

Mechanical properties tested in state of delivery			Manufacturer: PJSC DNIPROSPETSSTAL Date: 01.09.12 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)-FBH1/8";EN 10308 type 1a;class 3:OK										
Radiation free; mercury free. No Weld or Weld repair.												

Scanned by Bob

967815