



99276

ASA P078302 WO 6006 + 6021 CPA 3 FOEL 40 218.5" C086568


PJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE

	Contract No.: 50005 TECHN. PROTOCOL № 390-11 SPEC. № 0231/P030022-BD DIN EN 10088-3-05, DIN EN 10272-08, AD 2000-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 5653B-07; ASTM A193/A193M-10 GR 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: 8 Sheet: 5 QUALITY CERTIFICATE EN10204/3.1 Nr. 273199 PLANT ORDER № 8014900231
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	CUSTOMER DSS INTERNATIONAL SA Switzerland	PRODUCT DESCRIPTION Bars and rods of corrosion-resistant (stainless) steel hot rolled, pealed on Landgraf line; Трубки из коррозионно-стойких (нержавеющих) сталей горячекатаные, обточенные на линии Ландграф. STEEL MAKING PROCESS: BAf+AOD СПОСОБ ВЫПЛАВКИ: Электродуговая печь+AOP Round 5.250in/133.35 mm L=5.570m/18.262ft Grades: 316/316L/1.4404/1.4404	oh 12/6/13	QUANTITY: (number of pcs) 1bund Q-5591 lb/2536 kg Delivery condition solution annealed :1900°F(1040°C) water 30minutes термодобработка: закалка в воду
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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 Heat # № 99276	.023	.37	1.32	.036	.024	16.81	10.20	2.13	.068	.28	.05	.11	.005	.09	.012	.027	.0106	.001

DIN EN 10002-1, ASTM A370-09										TECHNICAL REQUIREMENTS: 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 2.0 1.0 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									
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, KJ, J											
	A ₅ % l. Q	In 2 inches (50mm) or 4D, min, % L		L	Q														
REQUIRED	205	240	515-700	40	40	50	140-217	100											
EFFECTIVE	281 280	302 304	579 580	60 59	58 58	77 79	170 170	290 291 282 282 286 285											

US - testing	yes	Results: ASME SA-388/SA-388M-10 (ASTM A 388/A 388M-09)-FBH1/8"; EN 10308 type 1; class 3: OK	Manufacturer: PJSC DNIPROSPETSSTAL Date: 27.05.13 Manager of quality assurance department - V. Kapaieva Signed:  Zaporozhye Made in Ukraine.
Radiation free; mercury free. No Weld or Weld repair.			

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