

97452.

39 pcs

ASA PO 77322 W05771 CPA 3 FOEL 40

34.625"

053453

PJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE

Contract No.: 50065
 TECHN. PROTOCOL № 210-11 SPEC. № 4893/P025873-ED
 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-10 GR B8M, CL1; ASME SA-193/SA-193M-10 GR B8M, CL1; ASTM A320/A320M-08 GR B8M, CL 1; ASME SA-320/SA-320M-10 GR B8M, CL 1; NACE MR 0175-03; NACE MR 0103-10; NACE MR 0175/ISO 15156-3-03

Sheets: 1 Sheet: 1
QUALITY CERTIFICATE EN10204/3.1 Nr. 258105
 PLANT ORDER № 8014904893

CUSTOMER
 DSS INTERNATIONAL SA
 Switzerland

PRODUCT DESCRIPTION
 Bars and rods of corrosion-resistant (stainless) steel, hot rolled, peeled on Landgraf line. Прутки из коррозионно-стойких (нержавеющих) сталей горячекатаные обточенные на линии «Ландграф».
STEEL MAKING PROCESS: EAF+AOD
СПОСОБ ВЫПЛАВКИ: Электродуговая печь+АКР
 Round 5.500m/139.70 mm L=3.400-5.500m/11.148-18.033ft
 Grade: 316/F316/316L/F316L.

QUANTITY: 1bund Q-4105 lb/1862 kg
 (number of pes) 1bund Q-1437 lb/652 kg

Delivery condition
 solution annealed :1900-2010°F(1040-1100°C)/water 8minutes)
 термообработка: отпуск в воду

GMS Certified

7/31/12

ANALYSIS, %	C	Si	Mn	P	S	Cr	Ni	Mo	Al	Cu	V	W	Ti	Co	Nb	N ₂		
REQUIRED	<.030	<1.00	1.25-2.00	<.040	.020-.030	16.00-18.00	10.00-14.00	2.00-3.00	<.10	<.40	<.10	<.20	<.15	<.40	<.20	<.10		
CAST <i>Hecht#</i> № 97452	.028	.38	1.55	.036	.024	17.01	11.43	2.13	.068	.23	.05	.08	.020	.07	.01	0760		

ASTM A370-08a

MECHANICAL PROPERTIES	Yield Strength, Ksi(N/mm ²) Re (R _{0.2})	Tensile Strength, Rm, ksi (N/mm ²)	Elongation A ₅ %	Reduction of area, Z %	Brinell Hardness HB	Impact strength, KV, J	TECHNICAL REQUIREMENTS:
REQUIRED	36(248)	75 (515)	45	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 2.0 0.0 0.0 1.0 1.0
EFFECTIVE	45.4(312)	85.3(586)	59	75	170	241	ICC-ASTM A262-08 (practice E)-test: O.K. Dimension/surface defects test, anti-mixing test – OK

Mechanical properties tested in state of delivery

US - testing yes Results: «ASTM A388 FBH 1/8 " »

Manufacturer: PJSC DNIPROSPETSSTAL
 Date: 03.02.12 Manager of quality assurance department - V. Kapaieva Signed: *[Signature]*

Radiation free; mercury free. No Weld or Weld repair.

Zaporozhye
 Made in Ukraine.