

96809

ASA PO 77533 WO 5811 CIA 8FOE40

8 pcs + 2

CO45132

PJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYYE, UKRAINE



Contract No.: 50005
 TECHN.PROTOCOL № 210-11 SPEC.№3602/P024728-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-10GR B8M,CL1;ASTM A320/A320M-08GR B8M,CL 1;ASME SA-320/SA-320M-10 GR B8M,CL 1;NACE MR 0175-03;NACE MR 0103-10

Sheets:7 Sheet: 4
QUALITY CERTIFICATE EN10204/3.1 Nr.252635
 PLANT ORDER № 8014903602



GMS Certified

CUSTOMER
 DSS INTERNATIONAL SA
 Switzerland

*ok
 10/31/12*

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 11.000in/279.40 mm L=3.705m/12.16ft L=4.44m/14.56ft
Grade: 316/F316/316L/F316L

QUANTITY: 1bund Q-4101 lb/1860 kg
 (number of pcs) 1bund Q-4903 lb/2224 kg

Delivery condition
 solution annealed ;1900-2010^oF(1040-1100^oC)/water
 термообработка:закалка в воду

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 Heat# № 96809	.024	.34	1.51	.037	.028	16,80	10.15	2.08	.050	.27	.04	.09	.086	.09	.01	.0300		

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
REQUIRED	36(248)	75 (515)	45	50	140-223	100
EFFECTIVE	45.0(309)	84.9(583)	60	79	170	243

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
2.5	2.0	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

*SV
 MC*

Mechanical properties tested in state of delivery

US - testing yes Results: SEP 1921,group 3/class Cc - O.K.

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

Manufacturer: PJSC DNIPROSPETSSTAL
 Date: 21.09.11 Manager of quality assurance department - V. Kapalicva Signed:
 Zaporozhye
 Made in Ukraine.

