

98400 (10") 6" RTT 160-

C068936

PJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE



Contract No.: 50005
 TECHN.PROTOCOL № 210-11 SPEC.№7695/PO28087-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 320/A320M-08GR B8M,CL 1;ASME SA-320/SA-320M-10 GR B8M,CL 1;NACE MR 0175-03;NACE MR 0103-10

Sheets: 8 Sheet: 3
QUALITY CERTIFICATE EN10204/3.1 Nr.265849
 PLANT ORDER № R014907695



CUSTOMER
DSS INTERNATIONAL SA
 Switzerland

PRODUCT DESCRIPTION

Bars and rods of corrosion-resistant (stainless) steel forged, peeled. Прутки из коррозионностойких (нержавеющих) сталей кованные, обточенные.
STEEL MAKING PROCESS: EAF+AOD
СПОСОБ ВЫПЛАВКИ: Электродуговая печь+АКР
 Round 10.000in/254.00 mm L=4.940m/16,197ft L=4.900m/16,066ft
 Grade: 316/F316/316L/F316L

QUANTITY: 1bund Q-4524 lb/2052 kg
 (number of pcs) 1bund Q-4493 lb/2038 kg

Delivery condition
 solution annealed :1922°F(1040°C)/water 25 minutes
 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 № 98400	.026	.46	1.31	.036	.026	16.92	10.20	2.03	.077	.29	.05	.09	.005	.09	.01	.025		

ASTM A370-08a

MECHANICAL PROPERTIES	Yield Strength, Ksi(N/mm ²) Re (R _{eL})	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	43.3(298)	85.0(583)	62	81	170	297

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	2.0	2.0	1.0
0.0	0.0	0.0	1.0
1.0	1.0		

 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 1/5 “.»

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

Manufacturer: PJSC DNIPROSPETSSTAL.
 Date: 20.09.12 Manager of quality assurance department - V. Kapaieva Signed:

Zaporozhye
 Made in Ukraine.