

95425 (5")

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DNEPROSPETSSTAL, YUZHNOYE SHOSSE 81, ZAPOROZHYE 69008, UKRAINE

Contract No.: 50005
 TECHN. PROTOCOL № 210-06 SPEC. №0431/PO21944
 ASTM A182/A182M-05; ASME SA-182/SA-182M-04; ASTM A276-04;
 ASTM A479/A479M-04; ASTM A479/SA-479M-04; ASTM A484/A484M-05; AMS-QQ-S-763A-03
 Cond. A; NACE MR 0175-2003; AMS 5648K-02; AMS 5653F-02; ASTM A193/A193M-04c GR B8M, CL1 (EXC PAR 6.3)
 ASME SA-193/SA-193M-04GR B8M, CL1 (EXC PAR 6.3)

Sheets: 8
 EN10204/3.1
 QUALITY CERTIFICATE №: 239780
 PLANT ORDER № 8014900431

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: Электроплавочная печь+AOP
 Round 5.000in/127.00 mm L=3.40-5.50m/11.15-18.03ft
 Grade: 316/F316/316L/F316L

QUANTITY:
 1bund Q-1120 lb/508 kg
 1bund Q-3391 lb/1538 kg
 (number of pcs) 1bund Q-1120 lb/508 kg

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

ANALYSES, %	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
HEAT № 95425	.028	.54	1.40	.036	.026	16.50	10.20	2.00	.065	.23	.05	.08	.08	.09	.01	.036

MECHANICAL PROPERTIES "ASTM A370-08a"	Yield Strength, Ksi(MPA)	Tensile Strength, Ksi(MPA)	Elongation in 2 inches (50mm) or 40 min. % (ASTM A370)	Reduction of area, %	Brinell Hardness HB	Impact strength, K.V. J
REQUIRED	36(248)	75 (515)	45	50	140-223	100
EFFECTIVE	39.7(273)	80.7(554)	59	75	163	287

Mechanical properties tested in state of delivery

TECHNICAL REQUIREMENTS:
 Macrostructure - GOOD
 GRAIN SIZE: 5 to ASTM E 112
 Nonmetallic inclusions ASTM E 45 (Method A)
 A B C D
 thin thick thin thick thin thick thin thick
 2.0 1.5 1.5 1.0 0.0 0.0 1.0 1.0
 ICC-ASTM A262-02a (Method E)-test: O.K.
 ..Dimension/surface defects test: anti-mixing test - O.K.
 Ratio of reduction- 21.6:1

US - testing yes Results: SEP 1921, 3/ Dd - O.K.

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

Manufacturer: JSC DNEPROSPETSSTAL
 Date: 09.11.10 Signed: V. Kapatev

Zaporozhye
 Made in Ukraine.

