

94921

18.75"

C010760



DNEPROSPETSSTAL, YUZHNOYE SHOSSE 81, ZAPOROZHYE 69008, UKRAINE

OHS Certified

Contract No.: 07149

TECHN. PROTOCOL № 210-06 SPEC. № 6152/P021010
 ASTM A182/A182M-05; ASME SA-182/SA-182M-04; ASTM A276-04;
 ASTM A479/A479M-04; ASTM E SA-479/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
 ASME SA-193/SA-193M-04GR B8M, CL1

EN10204/3.1
 Sheets: 5 Sheet: 5
 QUALITY CERTIFICATE № 233033
 PLANT ORDER № 8071496152

CUSTOMER
 „DSS INTERNATIONAL SA“
 Switzerland

PRODUCT DESCRIPTION
 Bars and rods of corrosion-resistant (stainless) steel forged, peeled.
 Прутки из коррозионностойких (нержавеющих) сталей кованые обточенные
STEEL MAKING PROCESS: EAF+AOD
СПОСОБ ВЫПЛАВКИ: Электродуговая печь+АКР
 Round 18.750in/476.25 mm L=2.92m/9.57ft
 Grade: 316/F316/316L/F316L

QUANTITY:
 (number of pcs) 1bund Q-9314 №4225 kg
 Delivery condition
 solution annealed: 1910-2010° F (1040-1100° C)/water 31 minutes
 термическая обработка: 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 № 94921	.025	.35	1.43	.039	.023	16.84	10.26	2.05	.068	.21	.04	.07	.07	.06	.010	.030		

ASTM A 370-08a

MECHANICAL PROPERTIES	Yield Strength, Ksi(N/mm ²) Re (R _{0.2})	Tensile Strength, Rm, ksi (N/mm ²)	Elongation in 2 inches (50mm) or 4D, min, % (ASTM A370)	Reduction of area, Z %	Brinell Hardness HB	Impact strength, KV, J
REQUIRED	36(248)	75 (515)	45	50	140-223	110
EFFECTIVE	42.7(293)	81.5(560)	60	75	163	273

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
 2.5 2.0 2.5 1.5 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- 4.52:1

Mechanical properties tested in state of delivery

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

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

Manufacturer: JSC DNEPROSPETSSTAL
 Date: 17.05.10 Signed:
 Zaporozhye
 Made in Ukraine.

