

95819

C027197

DNEPROSPETSSTAL, YUZHNOYE SHOSSE 81, ZAPOROZHYE 69008, UKRAINE



QMS Certified

Contract No.: 50005
 TECHN. PROTOCOL № 210-06 SPEC. № 1462/PO23042-ED
 ASTM A182/A182M-05; ASME SA-182/SA-182M-04; ASTM A276-04;
 ASTM A479/A479M-04; ASTM 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, CLI (EXC PAR 6.3)
 ASME SA-193/SA-193M-04 GR B8M, CLI (EXC PAR 6.3);

EN10204/3.1
 Sheets: 9 Sheet: 1
 QUALITY CERTIFICATE Nr. 242283
 PLANT ORDER № 8014901462

CUSTOMER
 "DSS INTERNATIONAL SA"
 Switzerland

PRODUCT DESCRIPTION
 Bars and rods of corrosion-resistant (stainless) steel hot rolled, peeled on Landgraf line. Прутки из коррозионностойких (нержавеющих) сталей горячекатаные обработанные на линии Ландграф.
STEEL MAKING PROCESS: EAF+AOD
СПОСОБ ВЫПЛАВКИ: Электродуговая печь+АКР
 Round 4.000in/101.60 mm L=3.40-5.50m/11.15-18.03ft
 Grade: 316/F316/316L/F316L

QUANTITY: 1bund Q-3452 lb/1566kg
 (number of pcs) 1bund Q-3470 lb/1574kg
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 № 95819	.027	.28	1.42	.035	.026	17.04	10.07	2.05	.061	.18	.04	.14	.10	.07	.01	.033

MECHANICAL PROPERTIES "ASTM A370-08a"	Yield Strength, Ksi(MPA)	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	100
EFFECTIVE	38.2(264)	79.8(551)	55	75	163	242

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
2.0	1.5	2.0	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->20 :1

Mechanical properties tested in state of delivery
 US - testing yes Results: SEP 1921, 3/ Dd - O.K.

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

Manufacturer: JSC DNEPROSPETSSTAL
 Date: 2.01.11 Signed: *[Signature]*
 Zaporozhye
 Made in Ukraine.

