

95805 (7 IN)

CO27205



GMS Certified

**DNEPROSPETSSTAL, YUZHNOYE SHOSSE 81, ZAPOROZHYE 69008, UKRAINE**

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, CL1 (EXC PAR 6.3)  
 ASME SA-193/SA-193M-04GR B8M, CL1 (EXC PAR 6.3);

EN10204/3.1  
 Sheets: 9 Sheet: 6  
 QUALITY CERTIFICATE Nr.242283  
 PLANT ORDER № 8014901462

**CUSTOMER**  
 „DSS INTERNATIONAL SA“  
 Switzerland

**PRODUCT DESCRIPTION**  
 Bars and rods of corrosion-resistant (stainless) steel hot rolled, peened on Landgraf line. Прутки из коррозионностойких (нержавеющих) сталей горячекатаные обточенные по линии Ландграф.  
**STEEL MAKING PROCESS: EAF+AOD**  
 СПОСОБ ВЫПЛАВКИ: Электродуговая печь + АКР  
 Round 7.000in/177.80 mm L=3.40-5.50m/11.15-18.03ft  
 Grade: 316/F316/316L/F316L

**QUANTITY:** 1bund Q-4392 lb/1992kg (number of pcs)  
**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 <sub>2</sub>
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 № 95805	.024	.49	1.45	.040	.024	16.69	10.18	2.04	.076	.25	.04	.15	.005	.08	.01	.072

MECHANICAL PROPERTIES „ASTM A370-08a“	Yield Strength, Ksi(MPA)	Tensile Strength, Rm,ksi (N/mm <sup>2</sup> )	Elongation in 2 inches (50mm) or 40,mm,% (ASTM A370)	Reduction of area, %	Brinell Hardness HB	Impact strength, KV. J
REQUIRED	36(248)	75 (515)	45	50	140-223	100
EFFECTIVE	47.1(323)	87.5(601)	52	79	174	296

**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 2.5 2.0 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-11.28 :1

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

Manufacturer: JSC DNEPROSPETSSTAL  
 Date: 12.01.11 Signed: \_\_\_\_\_

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

Zaporozhye  
 Made in Ukraine.

