

PO 76054  
 WD 5459  
 CPA - NPS 3 SCH 160

96137(8").

0033928



GMS Certified



DNEPROSPETSSTAL, YUZHNOYE SHOSSE 81, ZAPOROZHYE 69008, UKRAINE

Contract No.: 50005  
 TECHN.PROTOCOL № 210-06 SPEC.№1882/P023364-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;  
 ASME SA-193/SA-193M-04GR B8M, CL1; NACE MR0103

EN10204/3.1  
 Sheets: 5 Sheet: 2  
 QUALITY CERTIFICATE Nr.245760  
 PLANT ORDER № 8014901882

oh  
 8/31"

CUSTOMER  
 „DSS INTERNATIONAL SA“  
 Switzerland

PRODUCT DESCRIPTION  
 Bars and rods of corrosion-resistant (stainless) steel forged, peeled. Шпунты из коррозионностойких (пержающихся) сталей кованные, обточенные.  
 STEEL MAKING PROCESS: EAF+AOD  
 СПОСОБ ВЫПЛАВКИ: Электродуговая печь + АКР  
 Round 8.000in/203.20 mm L=5.10m/16.72ft L=4.43m/14.52ft L=4.00m/13.11ft  
 Grade: 316/F316/316L/F316L.

Band Q-3020 lb/1370 kg  
 QUANTITY: Band Q-2634 lb/1195 kg  
 (number of pcs) Band Q-2359 lb/1070 kg  
 Delivery condition  
 solution annealed 1900-2010 F (1040-1100°C) water 15 minutes  
 термообработка: закалка в воде

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 № 96137	.026	.50	1.38	.035	.020	16.80	10.20	2.05	.061	.22	.05	.10	.11	.07	.01	.033		

ASTM A370-08a

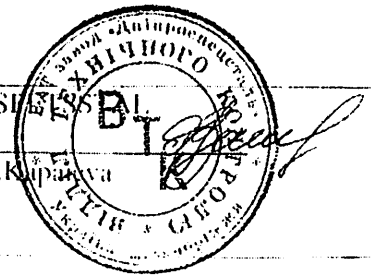
MECHANICAL PROPERTIES	Yield Strength, Ksi(N/mm <sup>2</sup> ) Re (R <sub>e2</sub> )	Tensile Strength, Rm,ksi (N/mm <sup>2</sup> )	Elongation		Reduction of area, Z, %	Brinell Hardness HB	Impact strength, KV, J
			In 2 inches (50mm) or 4D, min, % (ASTM A370)				
REQUIRED	36(248)	75 (515)	45		50	140-223	100
EFFECTIVE	39.5(269)	83.5(568)	59		75	167	194

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 2.0 1.0 0 0 1.0 1.0  
 ICC-ASTM A262-02a(Method B)-test: O.K.  
 „Dimension/surface defects test, anti-mixing test O.K.“  
 Ratio of reduction- 10.17:1

Mechanical properties tested in state of delivery

US - testing	yes	Results: SEP 1921, 3/ Cc - O.K.
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Manufacturer: JSC DNEPROSPETSSTAL  
 Date: 11.04.11 Signed: V. Karpava



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

Zaporozh'ye  
 Made in Ukraine.