95008 (4).

C015213

DNEPROSPETSSTAL, YUZHNOYE SHOSSE 81, ZAPOROZHYE 69008, UKRAINE

QMS 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;ASTME 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:8 Sheet: 1
QUALITY CERTIFICATE Nr.234226
PLANT ORDER № 8071496152

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 обточенные 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-3470 lb/1574 kg
(number of pcs) 1bund Q-1173 lb/532 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 № 95008	.021	.33	1.30	.038	.023	16.45	10.05	2.06	.05	.24	.04	.10	.072	.07	.01	.036		

ASTM A 370-08a

MECANICAL PROPERTIES	Yield Strength, Ksi(N/mm²) Re ($R_{0.2}$)	Tensile Strength, Rm,ksi (N /mm²)	Elongation in 2 inches (50mm) or 4D,min,% (ASTM A370)	Reduction of area, Z %	Brinel Hardness HB	Impact strength, KV, J
REQUIRED	36(248)	75 (515)	45	50	140-223	100
EFFECTIVE	36.1(249)	80.4(555)	60	73	163	218

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.

TECHNICAL REQUIREMENTS:
Macrostructure – GOOD
GRAIN SIZE : 7 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	1.6	1.1	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

QA ACCEPTED JWT SEP 23 2010 ASA ALLOYS EDMONTON

Manufacturer: JSC DNEPROSPETSSTAL
Date: 16.06.10 Signed: V.Kapaieva

Zaporozhye
Made in Ukraine.