

COOY676

7/6/2010

94669 (20")

DS654

DNEPROSPETSSTAL, YUZHNOYE SHOSSE 81, ZAPOROZHYE 69008, UKRAINE



QMS Certified
 Contract No.: 07234
 TECHN. PROTOCOL № 210-06 SPEC. № 5385/PO L27866
 ASTM A182/A182M-05; ASME SA-182/SA-182M-04; ASTM A276-04;
 ASTM A182/A182M-05; ASME SA-182/SA-182M-04; ASTM A484/A484M-05; AMS-QQ-S-763A-03
 ASTM A479/A479M-04; ASTM SA-479/SA-479M-04; ASTM A484/A484M-05; AMS-QQ-S-763A-03
 Condit.; INACE MR 0175-2005; AMS 5648K-02; AMS 5653F-02; ASTM A193/A193M-04c GR B8M, CL1;
 ASME SA-193/SA-193M-04GR B8M, CL1

CUSTOMER
 „DSS INTERNATIONAL SA“
 Switzerland
 Commodity code: RB612000/DSS

PRODUCT DESCRIPTION
 Bars and rods of corrosion-resistant (stainless) steel forged, peeled.
 Прутки из коррозионностойких (нержавеющих) сталей кованые, обточены.

STEEL MAKING PROCESS: EAF+AOD
 СПОСОБ ВЫПУСКА: Электроплавка переш+АКР
 Round 20,000mm/508,00 mm L=8,62m/2,63m
 Grade: 316/F316/316L/F316L

ANALYSES, %	C	Si	Mn	P	S	Cr	Ni	Mo	Al	Cu	V	W	Ti	Co	Nb	N ₂
REQUIRED	<.030	<.100	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 № 94669	.020	.24	1.35	.040	.023	16.57	10.00	2.04	.082	.23	.04	.08	.085	.072	.016	.032

MECHANICAL PROPERTIES

REQUIRED	Yield Strength, Ksi(N/mm ²) Re (R _{eL})	Tensile Strength, Rm, Rp0.2 (N/mm ²)	Elongation A ₅ %	Reduction of area, Z %	Brinell Hardness HB	Impact strength, KV, J
REQUIRED	30(205)	75 (515)	45	50	140-223	100
EFFECTIVE	45.9(317)	82.5(567)	63	77	167	217

Mechanical properties tested in state of delivery

TECHNICAL REQUIREMENTS:
 Macrostructure - GOOD
 GRAIN SIZE: 4 to ASTM E 112
 Nonmetallic inclusions ASTM E 45 (Method A)
 thin thick thin thick thin thick thin thick
 2.5 2.0 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 - 4.3:1

Manufacturer: JSC DNEPROSPETSSTAL
 Date: 26.02.10 Signed: V. Kapalichuk

Zaporozhye
 Made in Ukraine.

