

A01058

PJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE

Contract No.: 20002
 TECHN. PROTOCOL № 390-11 SPEC № 3734/P033051-ED
 DIN EN 10088-3-05/DIN EN 10272-08 AD20000-Merkblatt W2; AD 2000-Merkblatt W10-ASTM A 182/A 182M-10; ASME SA-182/SA-182M-10; ASTM A 276-10; ASTM A 314-08; ASTM A 479/A 479M-10; ASME SA-479/SA-479M-10; ASTM A 484/A 484M-10; AMS-QQ-S-763B-06 Cond.A; AMS 5648K-07; AMS 5653F-07; ASTM A 193/A 193M-10GR B8M, CL1 (EXC PAR 7.2); ASME SA-193/SA-193M-10 GR B8, CL 1 (EXC PAR 7.3); NACE MR 0175-03; NACE MR 0103-10



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
ЧІОСІВ ВИПУЛІВКИ: Електротрубова литьє-АКР
 Round 5.000in/127.00 mm L=5.090m/16.699ft L=5.100m/16.721ft
 Grade: 316/316L/1.4401/1.4404

ANALYSIS, %	C	Si	Mn	P	S	Cr	Ni	Mo	Al	Cu	V	W	Ti	Co	Nb	N ₂	Sn	B
	<.030	<1.00	1.20-2.00	<.040	.015-.030	16.50-18.00	10.00-13.00	2.00-2.50	<.10	<.40	<.10	<.20	<.15	<.40	<.20	<.10		
	.023	.43	1.39	.033	.022	16,90	10,30	2,07	.065	.23	.04	.07	.005	.08	.01	.025	.011	.001

DIN EN 10002-1, ASTM A370-09

MECHANICAL PROPERTIES	Yield Strength (N/mm ²) 0.2% R 1.0%	Tensile Strength, Rm (N/mm ²)	Elongation		Reduction of area, Z %	Brinell Hardness HB	Impact strength, KJ, J
			A5%	in 2 inches (50mm) or 4D, min, %			
REQUIRED	205	515-700	40	40	50	140-217	100
EFFECTIVE	273	558	67,5	61	75	163	268 270 265
	305	554	67,3	61	77	163	270 269 264

Mechanical properties tested in state of delivery

MECHANICAL REQUIREMENTS:
 Macrostructure - GOOD
 GRAIN SIZE: 5 to ASTM E 112-96(2004)
 Nonmetallic inclusions ASTM E 45-05 (Method A)
 thin thick thin thick thin thick thin thick
 A B C D
 3.0 2.0 2.0 1.0 0.0 0.0 1.0 1.0
 ICC-ASTM A262-08 (practice E)-test: O.K.
 Dimension/surface defects test, anti-mixing test - OK

Manufacturer: PJSC DNIPROSPETSSTAL
 Date: 05.08.14
 Manager of quality assurance department - V. Kapaieva
 Signed:

Zaporozhye
 Made in Ukraine.

US - testing yes

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