

97335

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PJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZHYE, UKRAINE

Contract No.: 50005



TECHN. PROTOCOL № 210-11 SPEC. № 4893/P025873-ED
 ASTM A182/A182M-10; ASME SA-182/SA-182M-10; ASTM A276-10; ASTM A314-08; ASTM A479/A479M-10; ASME SA-479/SA-479M-10; ASTM A484/A484M-10; AMS-QQ-S-763B-06 Cond.A; AMS 5648K-07; AMS 5653F-07; ASTM A193/A193M-10 GR B8M, CL1; ASME SA-193/SA-193M-10 GR B8M, CL1; ASTM A320/A320M-08 GR B8M, CL1; ASME SA-320/SA-320M-10 GR B8M, CL1; NACE MR 0175-03; NACE MR 0103-10; NACE MR 0175/ISO 15156-3-03.

Sheets: 9
 Sheet: 1
 QUALITY CERTIFICATE EN10204/3.1 Nr. 256896
 PLANT ORDER № 8014904893



CUSTOMER
 DSS INTERNATIONAL SA
 Switzerland

PRODUCT DESCRIPTION
 Bars and rods of corrosion-resistant (stainless) steel, hot rolled, peeled on Landgraf line. Прутки из коррозионноустойчивых (нержавеющих) сталей прокатанные обработанные на линии «Ландграф».
STEEL MAKING PROCESS: EAF+AOD
СПОСОБ ВЫПЛАВКИ: Электроплавка пчч+АКР
 Round 5.000mm/127.00 mm L=3.400-5.500mm/11.148-18.033ft
 Grade: 316/F316/316L/F316L

QUANTITY:
 (number of pcs) 1bund Q-2081 lb/944 kg
 1bund Q-4317 lb/1958 kg

Delivery condition
 solution annealed : 1900-2010° F (1040-1100°C) water 8 minutes
 репашована : 1900-2010° F (1040-1100°C) вода 8 минут

ANALYSIS, %	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
CAST № 97335	.025	.47	1.30	.034	.026	17.00	10.22	2.06	.074	.25	.09	.14	.080	.09	.019	.0340

MECHANICAL PROPERTIES	Yield Strength, Ks(N/mm ²) Re (R _{0.2})	Tensile Strength, Rm(kN/mm ²) (S _{0.2})	Elongation A ₅ , %	Reduction of area, Z, %	Brinell Hardness HB	Impact strength, K V, J	TECHNICAL REQUIREMENTS:									
							Macrostructure -- GOOD	GRAIN SIZE: 5 to ASTM E 112-96(2004)	Nonmetallic inclusions ASTM E 45-05 (Method A)	Dimension/surface defects test, anti-mixing test -- OK						
REQUIRED	36(248)	75 (515)	45	50	140-223	100	thin	thick	thin	thick	thin	thick	thin	thick	thin	thick
EFFECTIVE:	38.6(265)	81.4(559)	59	75	167	261	3.0	2.0	2.0	1.0	0.0	0.0	1.0	1.0	1.0	1.0

Mechanical properties tested in state of delivery

US - testing yes Results: «ASTM A388 FBH U/S...»

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

Manufacturer: PJSC DNIPROSPETSSTAL
 Date: 04.01.12 Manager of quality assurance department - V. Kapaieva Signed: *[Signature]*
 Zaporozhye
 Made in Ukraine.