

				DNEPROSPETSstal, YUZHNOYE SHOSSE 81, ZAPOROZHYE 69008, UKRAINE		Sheet: 4 QUALITY CERTIFICATE EN10204/3.1NF.218089 PLANT ORDER № 8072342652											
Contract No.: 07234 TECHN. PROTOCOL № 210-06 SPEC. № 2652/L24516 ASTM A182/A182M-05; ASME SA-182/SA-182M-04; ASTM A276-04; ASTM A193/A193M-04; ASTM A479/SA-479M-04; ASTM A484/A484M-05; AMS-QQ-S-763A-03 ASTM A479/A479M-04; ASTM SA-479/SA-479M-04; ASTM A193/A193M-04; GR B8M, CL1 CONCL: NACE MR 0175-2000; AMS 5648K-02; AMS 5653F-02; ASTM A193/A193M-04; GR B8M, CL1		PRODUCT DESCRIPTION Rods of corrosion-resistant (stainless) steel forged peeled. Прутки из коррозионностойких (нержавеющих) сталей кованные обточенные. STEEL MAKING PROCESS: EAF+AOD ЦИТОЛОС ВИПУЛІВАННЯ: Електроплавна пель+АКР Round 16.00in/406.40 mm L=3.44m/11.28ft Grade: 316/F316/316L/F316L		QUANTITY: (number of pcs) 1bund Q-8047 lb/3650 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	<.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
CAST № 93762		.025	.56	1.29	.039	.022	16.83	10.22	2.06	.070	.28	.03	.11	.11	.073	.01	.033
MECHANICAL PROPERTIES		Yield Strength ksi(N/mm ²) R _e (R _{eH})	Tensile Strength R _m (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		42.9(295)	81.6(561)	56	75	165		236									
Mechanical properties tested in state of delivery																	
US - testing		yes	Results: SEP 1921, 3/Cc - O.K.														
Radiation free; mercury free. No Weld or Weld repair.																	
Manufacturer: JSC DNEPROSPETSstal Date: 16.10.08 Signed: [Signature] Zaporozhye Made in Ukraine.																	

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