

PFJSC DNIPROSPETSSTAL, YUZHNOYE SHOSSE 81, 69008 ZAPOROZH'YE, UKRAINE

ASNA V# 80305 W# 7517 CMA 3 T02 00-50 pcs

C194475



Contract No. 20002
 TECHN. PROTC. 01 № 390-11 SPEC. №65950/PQ41671
 DIN EN 10088-3-05/DIN EN 10272-08, AD2000-Merkblatt W2, AD 2000-Merkblatt W10 ASTM A182/A182M-10/ASME SA-182/A-182M-10, ASTM A276-10, ASTM A314-08, ASTM A479/A479M-10, ASME SA-179/SA-179M-10, ASTM A484/A484M-10, ASME SA-76/SA-76M-06, ASME SA-568/SA-568M-07, ASME SA-565/SA-565M-07, ASTM A193/A193M-10, ASME SA-193/SA-193M-10, GR. HR. CT. 1, ASTM A220/A220M-08, GR. HR. CT. 1, ASME SA-320/SA-320M-10, GR. HR. CT. 1, NACE MR 0175-03, NACE MR 0103-10

Sheet: 3
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 INSPECTION CERTIFICATE EN10204/3.1 №.324612
 PLANT ORDER № 8014905950



CUSTOMER
DSS INTERNATIONAL
SA Switzerland

PRODUCT DESCRIPTION
 Bars and rods of corrosion-resistant (stainless) steel hot rolled, pickled on Landgraf line (Fluptrik) in koppenhagen-rothkrux (tjepkarenounv) crateli (koppenhagen, ofentemure na amun jhantrop, STEEL MAKING PROCESS: EAF+AOD)
CHOCOB BPHIABPCH (Чокробоченна мет. АКР)
 Round 3, 750hp/95,25 mm L=3,670m/12,03ft L=5,610m/18,393ft
 Grade: 316/316L/1.4401/1.4404

Delivery condition
 solution annealed 1190°C/11040°F, water 30minutes
 розпосодовані: розпосодовані в розв'язу

ANALYSIS, %	C	Si	Mn	P	S	Cr	Ni	Mo	Al	Cu	V	W	Ti	Co	Nb	N	Sn	B
REQUIRED	<0.30	<1.00	1.20-2.00	<0.040	0.015-0.030	16.50-18.00	10.00-13.00	2.00-2.50	<10	<40	<10	<20	<15	<40	<20	<10		
CAST № A05049	.020	.47	1.31	.036	.024	16.88	10.35	2.11	0.79	.23	.06	.13	.005	.10	.014	.025	.008	.0022

DIN EN 10002-1, ASTM A370-09

MECHANICAL PROPERTIES	Yield Strength, (N/mm ²) R _{0.2%} R 1.0%	Tensile Strength, (N/mm ²) R _m	Elongation		Reduction of area, Z % L ₅	Brinell Hardness HRB	Impact strength, KJ, J	
			A % L ₅	In 2 inches (50mm) or 4D min, % L ₅			L ₅	Q
REQUIRED	205	515-690	40 -	40	50	140-217	100	-
EFFECTIVE	302 303	336 337	60 - 60 -	59 59	79 79	163 163	211 208 211 208	-

Mechanical properties tested in state of delivery

US - testing **yes** Results: ASME SA-388/SA-388M-10/ASTM A 388/A 388M-09-
 FBH/78° EN 10308 Type I, class 3OK

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

Manufacturer: PFJSC DNIPROSPETSSTAL
 Date: 05/09/17 Manager of quality assurance department - V. Kapateva
 Signed:
 Zaporozh'ye
 Made in Ukraine.

July 15/18