

94271



DNEPROSPETSSTAL, YUZHNOYE SHOSSE 81, ZAPOROZHYE 69008, UKRAINE

QMS Certified

Contract No.: 07149

TECHN. PROTOCOL № 267-07 SPEC. № 4260/081921-CB

.. AD 2000-Merkblatt WO/TRD 100.97/23/EG(DGRL)

DIN EN 10088-3, DIN EN 10272, ASTM A182/A182M-05, ASME SA-182/SA-182M-04, ASTM A276-04, ASTM A479/A479M-04, ASME SA-479/SA-479M-04, ASTM A484/A484M-05, AMS-QQ-S-763A-03 Cond. A, NACE MR 0175, AMS S639H-02, AMS S647H-02, ASTM A193/A193M-04c GR B8, CL 1D, ASME SA-193/SA-193M-04 GR B8, CL 1D, ASTM A193/A193M-04c GR B8, CL1 (EXC PAR.6.3), ASME SA-193/SA-193M-04 GR B8, CL1 (EXC PAR.6.3)

Sheets: 8

Sheet: 6

QUALITY CERTIFICATE EN 10204/3.1 Nr. 225494
PLANT ORDER № 8071494260

CUSTOMER
„DSS INTERNATIONAL SA“
Switzerland

PRODUCT DESCRIPTION

Rods of corrosion-resistant (stainless) steel forged, peeled.
Прутки из коррозионно-стойких (нержавеющих) сталей кованы, обточенные.
STEEL MAKING PROCESS: Electric furnace
СПОСОБ ВЫПЛАВКИ: Электродуговая печь
Round 228.60 mm/9.00in L=5.44m/17.84ft L=5.50m/18.20ft
Grade: 304/304L/1.4307

QUANTITY: 15捆, Q-4023lb/1825 kg
(number of pcs) 15捆, Q-4118lb/1868 kg

Delivery condition:
Heat-treated (solution annealing 1000-1080° water)
С термич. обраб. (закалка в воду 1000-1080°)
Annealing time-14min

ANALYSES, %	C	Si	Mn	P	S	Cr	Ni	Mo	Al	Cu	V	W	Ti	Co	Nb	N ₂	Sn	B
REQUIRED	<.030	<1.00	1.25-2.00	<.040	<.030	18.00-19.50	8.00-10.00	<.30	<.10	<.40	<.10	<.20	<.15	<.40	<.20	<.10		
CAST № 94271	.026	.56	1.67	.031	.027	18.43	8.47	.30	.060	.25	.06	.07	.005	.08	.01	.056	.009	.0012

T:19B

MECHANICAL PROPERTIES	Yield Strength, (N/mm ²) R0.2% R1.0%		Tensile Strength, Rm, (N/mm ²)	Elongation A ₅ % L Q		Reduction of area, Z % L Q		Brinell Hardness HB	Impact strength, KV, J L Q	
	REQUIRED	205		230	515-680	45	50		Max 215	100
EFFECTIVE	343	367	566	60	79	163	291 293 287			

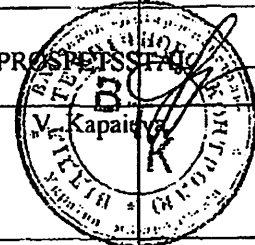
TECHNICAL REQUIREMENTS:

Macrostructure – GOOD
GRAIN SIZE : 5 to ASTM E 112
Nonmetallic inclusions ASTM E 45 (Method A)
A B C D
thin thick thin thick thin thick thin thick
2.0 2.1 1.5 1.0 0.0 0.0 1.0 1.0
ICC-DIN 50914(EN 114, EN ISO 3651-2)-test: O.K.
“Anti-mixing test-O.K.”
„Dimension test and surface defects test is accomplished“

Mechanical properties tested in state of delivery

US - testing	yes	Results: SEP 1921,3/Cc-O.K.
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Manufacturer: JSC DNEPROSPETSSTAL
Date: 02.09.09 Signed:



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

Zaporozhye
Made in Ukraine.