Verified by ThyssenKrupp Materials NA, Anna Riggs
Quantity: 511 LB
Cust PO#: 72992
Customer: NEXXA INDUSTRIES LTD.

2008-09-29
Shipper#: U87465
Cust Part#:

P/o : CV2560
P/N: 403694
HT: 93150

93150

JSC DNEPROSPETSSTAL
YUZHNOYE SHOSSE
69008, ZAPOROZHYE
UKRAINE

Purchase order No : 07252
TECHN.PROTOCOL № 210-05 SPEC.№0527
„ASTM A182/A182M-05;ASME SA-182/SA-182M-04,ASTM A276-04;
ASTM A479/A479M-05;ASTM SA-479/SA-479M-04, ASTM A-484/A484M-05,
ASTM A193/A193M-04«GR B8, CL1
ASME SA-193/SA-193M-04 GR B8CL 1;

Sheets: 6 Sheet:6
QUALITY CERTIFICATE EN10204/3 1 Nr.208648
PLANT ORDER № 8072520527

CUSTOMER: „DSS INTERNATIONAL SA
Switzerland

Purchase number of client :CV2560

PRODUCT DESCRIPTION
Rods of corrosion-resistant (stainless) steel,forged peeled
Прутки из коррозионностойких(нержавеющих) сталей кованые
,обточенные.
STEEL MAKING PROCESS: EAF+AOD
СПОСОБ ВЫПЛАВКИ:Электродуговая печь+АКР
Round 11.0in/279.40 mm L=3.78m;4.44m
Grade: 304/F304L/304L/F304L

QUANTITY: 1bund Q-4145lb/1880kg
(number of pcs) 1bund Q-4872lb/2210kg

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	<1,00	1.25-2.00	<.040	.020-.030	18.00-20.00	8.00-10,50	<.30	<.10	<.40	<.10	<.20	<.15	<.10	<.20	<.10		
CAST № 93150	.023	.29	1.61	.036	.025	18.52	8.28	.25	.065	.28	.04	.08	005	.074	.01	.047		

MECANICAL PROPERTIES	Yield Strength, Ksi(N/mm²) Re($R_{p0.2}$)	Tensile Strength, Rm,ksi (N/mm²)	Elongation A_5 %	Reduction of area, Z %	Brinel Hardness HB	Impact strength, KV, J
REQUIRED	30(205)	75 (515)	45	50	140-223	100
EFFECTIVE	42.9(296)	79.6(549)	60	75	163	289

Heat treatment (specimen) Delivery condition: In state of delivery

TECHNICAL REQUIREMENTS:
Macrostructure – GOOD
GRAIN SIZE : 5 to ASTM E 112-96
Nonmetallic inclusions ASTM E 45 (Method A)

A		B		C		D	
thin	thick	thin	thick	thin	thick	thin	thick
2.0	1.5	2.0	1.0	0.0	0.0	1.0	1.0

ICC-ASTM A262-02a(Method E)-test: O K.
„Dimension/surface defects test,anti-mixing test – O.K."
Ratio of reduction- 6.9
NOTE:
The customer confirms that the above stated requirements to chemical composition, dimensions,mechanical properties ,packing,marking and inspection certificate comply with the specification SSI Rev3.

US - testing	yes	Results: SEP 1921, 3/Cc - O.K.

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

Manufacturer: JSC DNEPROSPETSSTAL
Date: 10.03.08 Signed: T.A.Babashkina

Zaporozhye
Made in Ukraine.