

QUALITY CERTIFICATE N 253-108

Seller, address
 Moscow Company of Metals
 and Alloys (MKMC)
 121598
 Gorbunova str.2
 Moscow, Russia

NAME OF PRODUCT, ND

Titanium bar as annealed, as pickled,
 as per ASTM B 348/93, DIN 50049-31/B
 Extract from the minutes dtd. 28.08.94

Batch N	Heat N	Net weight (kg)	Alloy Grade, Treatment	Product dimensions (mm)
4-108	4-108	154	Grade 2	16.0 x 3000

CHEMICAL COMPOSITION
 FRACTION OF THE TOTAL MASS, %

C	Fe	O2	N2	H2	Other impurities each	Ti total
0.04	0.04	0.09	0.01	0.0022	<0.1	<0.3 base

on final product
 annealed at 750 C, 1 hour, A/C

MECHANICAL PROPERTIES

Tensile strength, MPa	Yield strength, MPa	Elongation, %	Reduction, %
450	340	29.8	59.0

Date 970130
 PERMASCAND
 QAVOC APPROVED
 Sign (89)

Microstructure is satisfactory.
 Product indicated in present document meet the Contract Quality requirements.

Signature *[Signature]*

Stamp

MOSCOW COMPANY OF METALS & ALLOYS
 MOSCOW, GORBUNOV STR. 2
 TEL/FAX (095)4486595

1995

PARTNR.: X1352AJ
 AANTAL.: 5 PIR.
 DATUM.: 970221 LOCATIE: 31A
 ORDERNR.: P34572.

№ 1 3 1 4

CERTIFIKAT

K1242 BL (Pos # 2)
 (002) (EX)