

C.H.B. GROUP CORP.

MATERIAL CERTIFICATE

DIN 50049/3.1.B
ACC.TO EN 10204.3.1.B

K1242 BC

CONSIGNEE:
CONTRACT NO:
DESTINATION:

NO 20000625/34
DATE 2000/06/18

Commodity: C. P. TITANIUM SEAMLESS TUBE

Specification: ASTM B861-95 GR.2 CONDITION: VACUUM ANNEALING

Case No.	Size(mm)	Length (mm)	Quantity meter/pieces	Net Weight (Kg)	Heat No.	Lot No.
4	ØD.21.33XW.T.11	5000-6000	272.13/91	143	T05-35	F21

Case No.	Heat No. <u>T05-35</u>	Chemical Composition, % (content in percent of weight)							
		Fe	C	N	O	H	Residuals element		Ti
Requirements		Max. 0.30	Max. 0.10	Max. 0.03	Max. 0.25	Max. 0.015	≤ 0.1	≤ 0.4	Balance
4		0.16	0.05	0.014	0.15	0.002	< 0.1	< 0.4	"

Case No.	Heat No. <u>T05-35</u>	Tensile Strength (MPa)	Yield strength 0.2% (MPa)	Elongation (%)
	Requirements	Min 345	Min/Max 275/450	Min 20
4		540	345	30

Case No.	Heat No. T05-35	Ultrasonic Test	Hydrostatic Test	Flattening Test	Flaring Test
	Test spec.	N/A	17.2 MPa 5sec.		
4			Acceptable	Acceptable	Acceptable

We hereby certify that the material described above has been tested and complies with the terms of order confirmation. Inspection and dimensional control without complaints.

Note: 1. Visual inspection are passed.
2. Packing: in wooden case.

CERTIFIED TRUE COPY

Client: ROKEM
Order: 622.1
Item: 1
Qty: 6
Date: 30-07-02

MANAGER OF Q.C. DEPT
C.H.B. GROUP CORP.

K1242 BC Part 1
350001283
29 AUG. 2002

Handelsbureau
HART BV