

M.E.G.A.

CLIENTE
Customer
Client

PROVEEDORA DE MATERIALES AN CER
SA DE CV
ALFONSO REYES 4030 NTE.
COL. DEL NTE. MONTERREY, N.L.

CERTIFICATO N. 557067 FOGLIO 8
Certificate N. Sheet
Certificat N. Feuille

DATA / Date 02/03/09

CERTIFICATO DI COLLAUDO
TEST CERTIFICATE
CERTIFICAT DE CONTROLE

COMPANY
WITH QUALITY SYSTEM
CERTIFIED BY DNV
ISO 9001

ORDINE
Purchase order
Commande

225 - 231

COMMESSA 85820
Job N.
Confirmation de commande

PROVA Test Epreuve	MATERIALE Steel quality / Matière	COLATA Heat / Coulée	C %	Si %	Mn %	S %	P %	Cr %	Ni %	Mo %	Ti %	Cu %	V %	Al %	CE %
RAUF	ASTM A105/05	5591-07	0.186 --->	0.227	1.010	0.008	0.008	00.07	00.16	0.050	0.000	0.210	0.001	0.027	0.403
				Nb%=0.0002		N %=0.0098								CEs=	0.354
RUBB	ASTM A105/05	8005-07	0.181 --->	0.211	1.009	0.007	0.002	00.10	00.26	0.050	0.000	0.298	0.000	0.020	0.416
				Nb%=0.0004		N %=0.010		Sn%=0.0157						CEs=	0.349
KDLX	ASTM A105/05	0745420/07	0.180 --->	0.230	1.090	0.001	0.010	00.10	00.01	0.006	0.000	0.029	0.003	0.044	0.386
				Nb%=0.0037										CEs=	0.361
KTFD	ASTM A105/05	08/76307	0.200 --->	0.240	0.910	0.009	0.011	00.09	00.07	0.010	0.019	0.170	0.018	0.029	0.391
				Nb%=0.001		Sn%=0.009								CEs=	0.351
RNTB	ASTM A105/05	06/79200	0.195 --->	0.190	0.860	0.008	0.014	00.11	00.06	0.010	0.017	0.170	0.016	0.020	0.380
								Sn%=0.008						CEs=	0.338

PROVA Test Epreuve	PROVETTA Test specimen / Epreuve		SNERVAMENTO N/mm ² ≥ Yield point Limite d'élasticité	ROTTURA N/mm ² ≥ Tensile strength Rupture	ALLUNGAMENTO % ≥ Elongation, Allongement	CONTRAZIONE % ≥ Reduction of area Striction	DUREZZA HB Hardness Dureté	PIEGA Bend test Pliage	SCHIACC. Flatt. test Aplattiss.	RESILIENZA Impact test / Résilience				
	SEZIONE Section / Sect.	LUNGHEZZA Length / Longueur								UNITÀ MIS. Unit system	TIPO Type	T. °C Test tmp	VALORE / Value / Données	
RAUF	1	122.6	50.0	290.0	599.0	33.1	71.2	138-145			J	KV	0	54-54-50
RUBB	1	60.1	35.0	318.4	532.6	28.8	66.4	151-156			J	KV	0	52-50-56
KDLX	1	30.6	25.0	304.0	518.0	30.8	68.4	143-149			J	KV	0	48-48-44
KTFD	1	30.6	25.0	341.0	542.0	28.3	64.5	163-170			J	KV	0	38-44-42
RNTB	1	30.6	25.0	318.0	534.0	29.1	67.2	149-156			J	KV	0	52-50-56

PROVA Test Epreuve	NOTE / Remarks / Notes EN10204/3.1	FORMA Shape / Forme : 1 = <input checked="" type="checkbox"/> 2 = <input type="checkbox"/>
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RAUF	ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR.	/CERT.9205.MEGA/I*539998MEGA*
RUBB	ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR.	/CERT.9538.MEGA/I*544876MEGA*
KDLX	ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR.	/CERT.9918.MEGA/I*551015 MEGA*
KTFD	ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR.	/CERT.10224.MEGA/I*555314 MEGA
RNTB	ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR.	/CERT.9482.MEGA/I*543781MEGA*

PROVA Test Epreuve	POS. Item Pos.	QUANTITÀ Quantity Quantité	CODICE CLIENTE Customer code Code client	DESCRIZIONE / Description / Description	VISUAL AND DIMENSIONAL
RAUF	097	31		TEE S. 6000 NPT A/SA105N 2	OK
RUBB	097	39		TEE S. 6000 NPT A/SA105N 2	OK
KDLX	107	1881	ORD.231	90 DEG. ELBOW S. 3000 SW A/SA105N 1/2	OK
KTFD	107	13094	ORD.231	90 DEG. ELBOW S. 3000 SW A/SA105N 1/2	OK
RNTB	107	25	ORD.231	90 DEG. ELBOW S. 3000 SW A/SA105N 1/2	OK

NOTE / Remarks / Notes	ENTE UFFICIALE DI COLLAUDO Inspection Authority Service Inspection Official	CAPO COLLAUDO Chief Inspection Dept Responsable assurance qualité
MATERIAL ACCORDING TO NACE MR0175/ 2003.		DOC. CERT. M.E.G.A. Luca Marcati