

M.E.G.A.

CLIENTE / Customer / Client: **PROVEEDORA DE MATERIALES ANGER SA DE CV**
ALFONSO REYES 4030 NTE. COL. DEL NTE. MONTERREY, N.L.

CERTIFICATO N. / Certificate N.: **563356** FOLIO / Sheet / Folio: **1**
 DATA / Date: **06/07/09**
 COMMERSA / Job N.: **85820**
 Confirmation de commande:

CERTIFICATO DI COLLAUDO
TEST CERTIFICATE
TESTIFICAT DE CONTROLE

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV ISO 9001

ORDINE / Purchase order / Commande: **225 - 231**

PROVA / Test / Epreuve	MATERIALE / Steel quality / Matière	COLATA / Heat / Cnité	C%	Si%	Mn%	S%	P%	Cr%	Ni%	Mo%	Ti%	Cu%	V%	Al%	CE%
NDDA	ASTM A105/05	0745422707	0.180	0.235	1.050	0.003	0.017	00.10	00.01	0.005	0.000	0.025	0.000	0.026	0.378
NAAB	ASTM A105/05	08772550	0.190	0.250	0.850	0.007	0.009	00.08	00.06	0.020	0.023	0.140	0.017	0.024	0.368
KDNB	ASTM A105/05	0744614/07	0.180	0.245	1.070	0.004	0.010	00.11	00.02	0.006	0.000	0.070	0.003	0.041	0.388
KANB	ASTM A105/05	0745423/07	0.190	0.240	1.090	0.002	0.018	00.11	00.01	0.005	0.000	0.042	0.003	0.039	0.399
KDNA	ASTM A105/05	0835643/08	0.175	0.235	1.080	0.005	0.011	00.11	00.02	0.004	0.000	0.036	0.003	0.034	0.382
FCXT	ASTM A105/02	15456	0.210	0.270	0.920	0.003	0.008	00.11	00.17	0.020	0.002	0.140	0.002	0.025	0.410

PROVA / Test / Epreuve	PROVETTA / Test specimen / Epreuve		SNERVIMENTO / Minima z / Yield point / Limite d'elasticità	ROTTURA / Minima z / Tensile strength / Rupture	ALLUNGAMENTO / % z / Elongation / Allongement	CONTRAZIONE / % z / Reduction of area / Striction	DUREZZA HB / Hardness / Dureté	PEBA / Bend test / Pliage	SCHIACC. / Flat. test / Aplatis.	RESILLENZA / Impact test / Résilience			
	SEZIONE / Section / Sect.	LUNGHEZZA / Length / Longueur								UNITÀ MIS. / Unit system	TPO / Type	T. °C / Test temp	VALORE / Value / Donnée
NDDA	60.1	35.0	312.4	533.4	28.1	66.6	156-159			J	KV	-10	52-56-44
NAAB	30.6	25.0	302.0	522.0	32.2	68.4	140-149			J	KV	0	48-42-40
KDNB	60.1	35.0	307.0	528.0	32.1	67.8	140-146			J	KV	0	50-52-42
KANB	30.6	25.0	294.0	505.0	33.3	71.4	137-143			J	KV	0	36-38-34
KDNA	60.1	50.0	310.0	531.0	28.2	66.5	146-156			J	KV	0	48-50-46
FCXT	30.6	25.0	312.0	538.0	29.6	67.4	154-159			J	KV	0	48-40-48

PROVA / Test / Epreuve: **EN10204/3.1**

NDDA: ELECT. FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR. /CERT.9826.08 MEGA/1*549493MEGA*

NAAB: ELECT. FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR. /CERT.10046.MEGA/1*553019MEGA*

KDNB: ELECT. FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR. /CERT.10041.MEGA/1*552966MEGA*

KANB: ELECT. FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR. /CERT.10140.MEGA/1*554448MEGA*

KDNA: ELECT. FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR. /CERT.10078.MEGA/1*553469MEGA*

FCXT: ELECT. FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR. /CERT.10258.04 NET.LOM.*247523 MEGA*

PROVA / Test / Epreuve	POS. / Item / Pos.	QUANTITÀ / Quantity / Quantité	CODICE CLIENTE / Customer code / Code client	DESCRIZIONE / Description / Description	VISUAL AND DIMENSIONAL
NDDA	067	400		45 DEG. ELBOW S. 3000 SW A/SA105N 1.1/4	OK
NAAB	068	500		45 DEG. ELBOW S. 3000 SW A/SA105N 1.1/2	OK
KDNB	069	500		45 DEG. ELBOW S. 3000 SW A/SA105N 2	OK
KANB	074	1000		TEE S. 3000 SW A/SA105N 3/4	OK
KDNA	076	500		TEE S. 3000 SW A/SA105N 1.1/2	OK
FCXT	078	400		UNION S. 3000 SW A/SA105N 1/2	OK

PLEASA ANAHUAC Y CIA. S.A. DE C.V.
CONTROL DE CALIDAD
 FECHA: 25 Mar 2010
 1552
 FIRMA: E. RUIZ

NOTE / Remarques / Notes: MATERIAL ACCORDING TO NACE MR0175/ 2003.

ENTE UFFICIALE DI COLLAUDO / Inspection Authority / Service Inspection DPT: **DOC. CERT. M.E.G.A. Emmanuel Centemeri**