

FORM P.M.C. Rev. 0 15-05-2009

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. 565322 FOLGIO 1
Certificate N. Certificat N. Sheet
Feuille
DATA / Date 21/10/09

CERTIFICATO DI COLLAUDO
TEST CERTIFICATE
CERTIFICAT DE CONTROLE

COMPANY
WITH QUALITY SYSTEM
CERTIFIED BY DNV
ISO 9001

ORDINE 237
Purchase order
Commande

CONMESSA 89369
Job N.
Confirmation de commande

PROVA Test Epreuve	MATERIALE Material / Matière	COLATA Heat / Coulée	C %	Si %	Mn %	S %	P %	Cr %	Ni %	Mo %	Ti %	Cu %	V %	Al %	CE %
KDXD	ASTM A105/05	0834829/08	0.190 --->	0.245 Nb% = 0.0029	1.080 B % = 0.0001	0.002	0.009	00.12	00.01	0.003	0.000	0.024	0.004	0.040	0.397 CES = 0.370
KTRU	ASTM A105/05	08/76570	0.180 --->	0.220 NB% = 0.001	0.920 N % = 0.000	0.008	0.012	00.09	00.05	0.010	0.019	0.150	0.017	0.021	0.370 CES = 0.333
PACD	ASTM A105/05	08/72635	0.200 --->	0.210 Nb% = 0.000	0.880	0.007	0.015	00.12	00.05	0.010	0.007	0.220	0.012	0.023	0.393 CES = 0.346
PADB	ASTM A105/05 A5	08/72549	0.190 --->	0.210 Nb% = 0.000	0.870	0.007	0.010	00.08	00.04	0.010	0.019	0.140	0.021	0.027	0.369 CES = 0.335
RWXX	ASTM A105/05	0744579/07	0.180 --->	0.285 Nb% = 0.0025	1.110 N % = 0.000	0.008	0.012	00.11	00.02	0.006	0.000	0.031	0.003	0.031	0.392 CES = 0.365
KANB	ASTM A105/05	0745423/07	0.190 --->	0.240 Nb% = 0.0024	1.090 N % = 0.000	0.002	0.018	00.11	00.01	0.005	0.000	0.042	0.003	0.039	0.399 CES = 0.371

PROVA Test Epreuve	PROVETTA Test specimen / Epreuve		SNERVAMENTO MPa ≥ Yield strength Limite d'élasticité	ROTTURA MPa ≥ Tensile strength Rupture	ALLUNGAMENTO % ≥ Elongation Allongement	CONTRAZIONE % ≥ Reduction of area Striction	DUREZZA HB Hardness Dureté	PIEGA Bend test Pliage	SCHIACC. Flatt. test Aplattiss.	RESILLENZA Impact test / Resilience				
	SEZIONE Section / Sect	LUNGHEZZA Length / Longueur								UNITÀ MIS. UM	TIPO Type	T °C Test temp	VALORE / Value / Données	
KDXD	1	122.6	50.0	293.0	501.0	32.0	71.0	137-143			KV		0	46-38-40
KTRU	1	122.4	50.0	403.1	595.2	28.6	77.1	168-172			KV		0	158-174-180
PACD	1	121.5	50.0	321.6	528.2	30.0	76.7	168-173			KV		0	68-72-80
PADB	1	122.6	50.0	322.0	539.0	29.3	67.2	149-156			KV		0	46-48-52
RWXX	1	60.1	35.0	300.0	511.0	31.0	68.0	143-149			KV		0	48-50-54
KANB	1	30.6	25.0	294.0	505.0	33.3	71.4	137-143			KV		0	36-38-34

PROVA Test Epreuve NOTE / Remarks / Notes EN10204/3.1

FORMA Shape / Forme : 1 = 2 =

KDXD ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR. /CERT.10077.MEGA/I*553183MEGA*

KTRU ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR. /CERT.10369.MEGA/I*558757MEGA

PACD ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR. /CERT.10346.MEGA/I*557752MEGA

PADB ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR. /CERT.10414.MEGA/I*560440MEGA

RWXX ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR. /CERT.9663.MEGA/I*546582MEGA*

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

PROVA Test Epreuve	POS. Item Pos.	QUANTITÀ Quantity Quantité	CODICE CLIENTE Customer code Code client	DESCRIZIONE / Description / Description	VISUAL AND DIMENSIONAL
KDXD	005	1458	50015	90 DEG. ELBOW S. 3000 NPT A/SA105N 1.1/2	OK
KTRU	005	542	50015	90 DEG. ELBOW S. 3000 NPT A/SA105N 1.1/2	OK
PACD	006	1695	50020	90 DEG. ELBOW S. 3000 NPT A/SA105N 2	OK
PADB	006	275	50020	90 DEG. ELBOW S. 3000 NPT A/SA105N 2	OK
RWXX	006	530	50020	90 DEG. ELBOW S. 3000 NPT A/SA105N 2	OK
KANB	010	500	52005	TEE S. 3000 NPT A/SA105N 1/2	OK

PLEASA ANAHUAC Y CIAS. S.A. DE C.V.

CONTROL DE CALIDAD

FECHA 25 Mar 2010

E.S.S.

FIRMA E. RUIZ

NOTE / Remarks / Notes MATERIAL ACCORDING TO NACE MR0175/ 2003.

ENTE UFFICIALE DI COLLAUDO Inspection Authority Service Inspection Official

CAPO COLLAUDO Chief Inspector DPT Responsable assurance qualité

DOC. CERT. M.E.G.A. Luigi Marcati