

FORMA PNC Rev. 0 15-06-2003

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.
 Certificat N.

574446

FOGLIO
 Sheet
 Feuille

5

DATA / Date

03/12/10

COMMESSA
 Job N.
 Confirmation de commande

91349

CERTIFICATO DI COLLAUDO
TEST CERTIFICATE
CERTIFICAT DE CONTROLE

COMPANY
 WITH QUALITY SYSTEM
 CERTIFIED BY DNV
 ISO 9001

ORDINE
 Purchase order
 Commande

244

PROVA Test Epreuve	MATERIALE Material / Matière	COLATA Heat / Coulée	C %	Si %	Mn %	S %	P %	Cr %	Ni %	Mo %	Ti %	Cu %	V %	Al %	CE %
KXAU	ASTM A105/05	0835214/08	0.185	0.250	1.060	0.003	0.012	00.11	00.01	0.005	0.000	0.034	0.003	0.000	0.389
			--->	Nb% = 0.0036	B % = 0.000									CEs = 0.361	
PTBT	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	0.387
			--->	Nb% = 0.0037										CEs = 0.3617	
KFWC	ASTM A105/05	09778432	0.190	0.210	0.930	0.010	0.009	00.07	00.05	0.010	0.017	0.140	0.019	0.020	0.377
			--->	Nb% = 0.002	B % = 0.000			Sn% = 0.007						CEs = 0.345	
KWRS	ASTM A105/05	08775737	0.180	0.200	0.880	0.010	0.009	00.06	00.05	0.010	0.015	0.160	0.020	0.020	0.358
			--->	Nb% = 0.001				Sn% = 0.008						CEs = 0.3267	
PRLX	ASTM A105/09	0771001	0.190	0.220	0.860	0.010	0.011	00.12	00.07	0.010	0.018	0.150	0.018	0.026	0.377
			--->	Nb% = 0.001				Sn% = 0.009						CEs = 0.3333	
PKUC	ASTM A105/09	09779219	0.195	0.200	0.880	0.007	0.012	00.12	00.07	0.010	0.019	0.160	0.017	0.029	0.386
			--->	Nb% = 0.002				Sn% = 0.008						CEs = 0.3417	

PROVA Test Epreuve	PROVETTA Test specimen / Epreuve		SBIERAMENTO MPa z Yield strength Limite d'élasticité	ROTURA MPa z Tensile strength Rupture	ALLUNGAMENTO % z Elongation Allongement	CONTRAZIONE % z Reduction of area Dilatación	DUREZZA HB Hardness Dureté	PESA Band test Pilage	SCHIACCI Flatt. test Aplatisse.	RESILLENZA Impact test / Résilience			
	SEZIONE Section / Sect.	LUNGHEZZA Length / Longueur								UNITÀ ANG. UM	TIPO Type	T °C Test temp.	VALORE / Value / Données
KXAU	120.7	50.0	312.0	510.7	32.6	77.3	140-152			KV	0	154-164-170	
PTBT	30.6	25.0	313.0	531.0	29.3	66.5	143-156			KV	0	46-42-50	
KFWC	30.6	25.0	313.0	532.0	29.3	67.1	149-156			KV	-1	44-56-62	
KWRS	30.6	25.0	294.0	528.0	32.9	71.7	137-143			KV	0	44-40-42	
PRLX	30.6	25.0	300.0	510.0	30.3	67.8	143-149			KV	0	46-36-42	
PKUC	60.1	35.0	295.0	505.0	32.1	71.2	137-149			KV	0	36-46-48	

NOTE / Remarks / Notes

EN10204/3.1

KXAU	ELECT. FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR.	/CERT.17193.LUCCHINI*553586MEGA*
PTBT	ELECT. FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR.	/CERT.10704.MEGA/I*568177MEGA*
KFWC	ELECT. FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR.	/CERT.10619.MEGA/I*567163MEGA
KWRS	ELECT. FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR.	/CERT.10494.MEGA/I*564290 MEGA
PRLX	ELECT. FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR.	/CERT.10885.MEGA/I*570934MEGA
PKUC	ELECT. FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR.	/CERT.10945.MEGA/I*571516MEGA

PROVA Test Epreuve	POS. Item Pos.	QUANTITÀ Quantity Quantité	CODICE CLIENTE Customer code Code client	DESCRIZIONE / Description / Description	VISUAL AND DIMENSIONAL
KXAU	048	139		CAP S. 3000 NPT A/SA105N 1.1/2	OK
PTBT	054	100		HEX. HEAD PLUG NPT A/SA105N 2.1/2	OK
KFWC	057	2000		90 DEG. ELBOW S. 3000 SW A/SA105N 1.1/4	OK
KWRS	067	2000		TEE S. 3000 SW A/SA105N 3/4	OK
PRLX	070	2000		TEE S. 3000 SW A/SA105N 1.1/2	OK
PKUC	110	199		TEE S. 6000 SW A/SA105N 2	OK

NOTE / Remarks / Notes

MATERIAL ACCORDING TO NACE MR0175/2003

ENTE UFFICIALE DI COLLAUDO
 Inspection Authority
 Service Inspection Official

CAPO COLLAUDO
 Chief Inspection DPT
 Responsable Assurance qualité

DOC. CERT. M.E.G.A.
 Simone Ruffioletti