

M.E.G.A.

CERTIFICATO DI COLLAUDO
TEST CERTIFICATE
CERTIFICAT DE CONTROLE

COMPANY
 WITH QUALITY SYSTEM
 CERTIFIED BY DNV
ISO 9001

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. 578062

FOLIO
 Sheet 2
 Feuille

DATA / Date 18/05/11

COMMESSA
 Job N.
 Confirmation de commande

91349

ORDINE
 Purchase order
 Commande 244

PROVA Test Epreuve	MATERIALE Material / Matière	COLATA Heat / Coulee	C %	Si %	Mn %	S %	P %	Cr %	Ni %	Mo %	Ti %	Cu %	V %	Al %	CE %
PKBF	ASTM A105/09	1941776/09	0.180	0.245	1.080	0.006	0.009	00.11	00.01	0.004	0.000	0.010	0.003	0.030	0.386
			--->	Nb% = 0.0028										CEs = 0.360	
PAFD	ASTM A105/05	08/76443	0.185	0.210	0.890	0.008	0.010	00.10	00.07	0.010	0.017	0.150	0.017	0.027	0.373
			--->	Nb% = 0.002		B % = 0.000		Sn% = 0.007						CEs = 0.333	
PASF	ASTM A105/05	3664-08	0.192	0.253	1.030	0.006	0.004	00.10	00.14	0.050	0.000	0.210	0.001	0.033	0.417
			--->	Nb% = 0.002		N % = 0.010		Sn% = 0.015		B % = 0.000				CEs = 0.3637	
KXSA	ASTM A105/05	06/74521	0.205	0.200	0.910	0.007	0.017	00.11	00.06	0.010	0.005	0.130	0.002	0.017	0.393
			--->	Nb% = 0.001						B % = 0.000				CEs = 0.356	
PCTL	ASTM A105/05	08/74036	0.180	0.230	0.870	0.014	0.009	00.07	00.06	0.020	0.005	0.170	0.001	0.030	0.358
			--->	Nb% = 0.000				Sn% = 0.009						CEs = 0.325	
KXXA	ASTM A105/05	08/76162	0.195	0.240	0.910	0.010	0.011	00.07	00.11	0.010	0.017	0.180	0.017	0.024	0.385
			--->	Nb% = 0.001		Sn% = 0.009		B % = 0.000						CEs = 0.346	

PROVA Test Epreuve	PROVETTA Test specimen / Epreuve		SNERVAMENTO MPa z Yield strength Limite d'élasticité	ROTTURA MPa z Tensile strength Rupture	ALLUNGAMENTO % z Elongation Allongement	CONTRAZIONE % z 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								UNITA' MIS. UM	TIPO Type	T. °C Test temp	VALORE / Value / Données
PKBF	1	30.6	25.0	302.0	32.1	68.9	143-152			J	KV	0	48-36-44
PAFD	1	30.6	25.0	306.0	32.9	69.5	143-156			J	KV	0	52-50-48
PASF	1	120.8	50.0	264.9	512.1	30.6	77.3	142-146		J	KV	0	156-138-124
KXSA	1	30.6	25.0	358.0	557.0	26.5	59.8	170-179		J	KV	0	64-68-66
PCTL	1	30.6	25.0	300.0	521.0	32.3	68.9	143-149		J	KV	0	38-42-40
KXXA	1	122.7	50.0	376.4	535.8	28.0	77.7	155-160		J	KV	-10	96-84-80

PROVA Test Epreuve NOTE / Remarks / Notes EN10204/3.1

PKBF	ELECT. FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR.	/CERT.10976.MEGA/I*572139MEGA*
PAFD	ELECT. FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR.	/CERT.10744.MEGA/I*568592MEGA*
PASF	ELECT. FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR.	/CERT.10486.MEGA/I*564290 MEGA
KXSA	ELECT. FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR.	/CERT.10226.METALMECCANICALOMBARDA*
PCTL	ELECT. FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR.	/CERT.10084FEAT*564384MEGA
KXXA	ELECT. FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR.	/CERT.37734.RIVA*554020MEGA*

PROVA Test Epreuve	POS. Item Pos.	QUANTITA' Quantity Quantité	CODICE CLIENTE Customer code Code client	DESCRIZIONE / Description / Description	VISUAL AND DIMENSIONAL
PKBF	064	500		45 DEG. ELBOW S. 3000 SW A/SA105N 1.1/2	OK
PAFD	068	2500		TEE S. 3000 SW A/SA105N 1	OK
PASF	073	100		TEE S. 3000 SW A/SA105N 3	OK
KXSA	075	1000		UNION S. 3000 SW A/SA105N 1	nut OK
PCTL	075	2000		UNION S. 3000 SW A/SA105N 1	male+female OK
KXXA	079	2000		COUPLING S. 3000 SW A/SA105N 1/2	OK

NOTE / Remarks / Notes	ENTE UFFICIALE DI COLLAUDO Inspection Authority Service Inspection Officiel	CAPO COLLAUDO Chief Inspection DPT Responsable assurance qualité
MATERIAL ACCORDING TO NACE MR0175/2003		DOC. CERT. M.E.G.A. Emmanuel Centemeri