

# 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. 553287 FOLGIO 1  
Certificate N. Sheet  
Certificat N. Feuille

DATA / Date 01/10/08

CERTIFICATO DI COLLAUDO  
TEST CERTIFICATE  
CERTIFICAT DE CONTROLE

COMPANY  
WITH QUALITY SYSTEM  
CERTIFIED BY DNV  
ISO 9001

ORDINE  
Purchase order  
Commande 223

COMMESSA 85402  
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 %
KACN	ASTM A105/05	07771089	0.185	0.190	0.890	0.007	0.009	00.08	00.04	0.010	0.021	0.150	0.020	0.024	0.367
			--->		Nb%=0.001	N % = 0.000		Sn%=0.013						CEs=	0.333
RUA	ASTM A105/05	0739814/07	0.185	0.220	1.070	0.003	0.015	00.12	00.02	0.009	0.000	0.049	0.001	0.024	0.374
			--->		Nb%=0.002										
KASU	ASTM A105/05	0745422/07	0.180	0.235	1.050	0.003	0.017	00.10	00.01	0.005	0.000	0.025	0.003	0.026	0.378
			--->		Nb%=0.0017									CEs=	0.355
FFNL	ASTM A105/02	AR0003	0.200	0.250	0.960	0.008	0.008	00.06	00.08	0.020	0.003	0.180	0.000	0.024	0.393
			--->			Nb%=0.000								CEs=	0.360
CFAN	ASTM A105/01	125869	0.173	0.282	1.120	0.001	0.008	00.12	00.16	0.035	0.000	0.230	0.001	0.043	0.417
			--->			Nb%=0.003								CEs=	0.3597
NDDD	ASTM A105/05	1T 16361	0.190	0.270	0.910	0.010	0.010	00.11	00.10	0.023	0.012	0.160	0.001	0.028	0.385
			--->		Nb%=0.002	Sn%=0.011								CEs=	0.341

PROVA Test Epreuve	PROVETTA Test specimen / Epreuvette		SNERVAMENTO N/mm <sup>2</sup> Yield point Limite d'élasticité	ROTTURA N/mm <sup>2</sup> 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
KACN	1	30.6	25.0	320.0	533.0	29.0	66.0	151-156		J	KV	0	48-50-54
RUA	1	60.1	35.0	321.0	536.0	29.0	67.0	151-156		J	KV	0	50-52-56
KASU	1	122.4	50.0	302.4	512.6	31.2	68.4	140-146		J	KV	0	48-56-60
FFNL	1	30.6	25.0	302.0	509.0	31.2	68.3	145-150		J	KV	0	48-38-40
CFAN	1	12.4	20.0	336.0	528.0	31.0	65.4	143-149					
NDDD	1	30.6	25.0	304.0	526.0	32.0	68.0	143-149		J	KV	0	50-52-54

PROVA Test Epreuve	NOTE / Remarks / Notes	FORMA Shape / Forme
	EN10204/3.1	1 = <input checked="" type="checkbox"/> 2 = <input type="checkbox"/>
KACN	ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR. /CERT.9740.MEGA/I*54781MEGA*	
RUA	ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR. /CERT.9736.MEGA/I*547652MEGA*	
KASU	ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR. /CERT.9840.MEGA/I*549664MEGA*	
FFNL	ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR. /CERT.73.04.EVASI*247474.MEGA	
CFAN	ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR. /CERT.62.02.EVASI*209742.MEGA	
NDDD	ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR. /CERT.9772.MEGA/I*548416MEGA*	

PROVA Test Epreuve	POS. Item Pos.	QUANTITÀ Quantity Quantité	CODICE CLIENTE Customer code Code client	DESCRIZIONE / Description / Description	VISUAL AND DIMENSIONAL
KACN	002	3000	50007	90 DEG. ELBOW S. 3000 NPT A/SA105N 3/4	OK
RUA	005	1000	50015	90 DEG. ELBOW S. 3000 NPT A/SA105N 1.1/2	OK
KASU	006	2000	50020	90 DEG. ELBOW S. 3000 NPT A/SA105N 2	OK
FFNL	007	300	51010	45 DEG. ELBOW S. 3000 NPT A/SA105N 1/8	OK
CFAN	008	200	51002	45 DEG. ELBOW S. 3000 NPT A/SA105N 1/4	OK
NDDD	010	905	51007	45 DEG. ELBOW S. 3000 NPT A/SA105N 3/4	OK

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