

M.E.G.A.

CLIENTE
Customer
Client

PROVEEDORA DE MATERIALES ANGER
SA DE CV

CERTIFICATO N. 549215 Foglio 4
Certificate N. Sheet
Foglio

DATA / Date 18/04/08

CERTIFICATO DI COLLAUDO
TEST CERTIFICATE
CERTIFICAT DE CONTROLE

COMPANY
WITH QUALITY SYSTEM
CERTIFIED BY DNV
ISO 9001

GRUPPO
Purchase order
Commande 217

Tubrialco, S.A. de C.V.

Av. 100 Metros #1057-A
Col. Nueva Industrial Vallejo
México, D.F. CP 07700

CONSEGNA
Job N.
Confirmation de commande 83530

PROVA Test Epreuve	MATERIALE Steel quality / Matière	COLATA Heat / Double	C %	Si %	Mn %	S %	P %	Cr %	Mo %	Ti %	Cu %	V %	Al %	CE %	
RBXN	ASTM A105/05	0778619	0.185	0.180	1.220	0.008	0.010	0.050	0.030	0.010	0.000	0.090	0.022	0.000	0.412
RFBR	ASTM A105/05	0672364	0.200	0.240	0.940	0.007	0.011	0.090	0.050	0.010	0.021	0.150	0.020	0.026	0.393
RFUC	ASTM A105/05	0776459	0.195	0.230	0.920	0.006	0.014	0.140	0.050	0.010	0.000	0.180	0.017	0.021	0.397
RLFN	ASTM A105/05	0775718	0.190	0.250	0.950	0.010	0.010	0.090	0.070	0.020	0.000	0.170	0.000	0.028	0.386
RTXF	ASTM A106/06 GR.B	87042	0.160	0.260	0.800	0.001	0.014	0.060	0.060	0.020	0.015	0.180	0.003	0.021	0.325
RUBC	ASTM A105/05	0744615/07	0.195	0.230	1.070	0.001	0.020	0.110	0.010	0.005	0.000	0.047	0.003	0.025	0.400

PROVA Test Epreuve	PROVETTA End specimen / Echantillon		SARZIAMENTO Thickness Épaisseur	RIFERENZA Reference Référence	ALLUNGAMENTO Elongation Élongation	CONTRAZIONE Reduction of area Réduction	DUREZZA Hardness Dureté	PROVA Test Epreuve	SOLLEC Load Charge	RESILLENZA Impact test / Résilience					
	SPESORE Thickness Épaisseur	LUNGHEZZA Length Longueur								UNITÀ MIS. Unit system	TPO Type	T °C Test temp	VALORE Value / Données		
RBXN	1	122.6	50.0	375.0	531.0	29.1	52.8	156-160							
RFBR	1	60.1	35.0	303.0	528.0	32.1	68.6	143-152		J	KV	-7	48-46-42		
RFUC	1	122.6	50.0	315.0	532.0	29.1	67.3	146-156		J	KV	0	48-52-58		
RLFN	1	30.6	25.0	315.0	532.0	28.7	66.4	151-156		J	KV	0	48-52-54		
RTXF	2	75.4	50.0	336.6	489.2	40.9		139-144	OK	J	KV	-15	96-102-90		
RUBC	1	30.6	25.0	312.0	529.8	28.4	66.2	149-156		J	KV	0	46-52-52		

PROVA Test Epreuve NOTE / Remark / Remarques EN10204/3.1 FORMA Shape / Forme 1 = σ 2 = ϕ

RBXN	ELECT. FURNACE-NORMALIZED AT 910 C COOLED IN STILL AIR. /CERT.0040366/0040365.FEAT*
RFBR	ELECT. FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR. /CERT.9343.MEGA/I*541706MEGA*
RFUC	ELECT. FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR. /CERT.818.CARLOTTO*540757 MEGA*
RLFN	ELECT. FURNACE-NORMALIZED AT 920 C COOLED IN STILL AIR. /CERT.83.EVASI*541241 MEGA*
RTXF	ELECT. FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR. /CERT.172407/1-3.TUBOS*543877MEGA*HT:3001PST*
RUBC	ELECT. FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR. /CERT.9690.MEGA/I*545906MEGA*

PROVA Test Epreuve	POS. Item Pos.	QUANTITÀ Quantity Quantité	CODICE CLIENTE Customer code Code client	DESCRIZIONE / Description / Description	VISUAL AND DIMENSIONAL
RBXN	033	1000		UNION S. 3000 NPT A/SA105N 2	OK
RFBR	098	500		90 DEG. ELBOW S. 3000 SW A/SA105N 1.1/4	OK
RFUC	023	20		TEE S. 3000 NPT A/SA105N 2	OK
RLFN	076	1000		BUSHING M/F NPT A/SA105N 2x1.1/2	OK
RTXF	130	500		COUPLING S. 3000 SW A/SA105N 1.1/4	OK
RUBC	097	5000		90 DEG. ELBOW S. 3000 SW A/SA105N 1	OK

Tubrialco
www.tubrialco.com.mx

NOTE / Remark / Remarques	ENTE UFFICIALE DI COLLAUDO Inspection Authority Service Inspection (SIC) Ltd	CAPO COLLAUDO Chief Inspector / CDT Responsable des opérations qualité
MATERIAL ACCORDING TO NACE MR0175/ 2003.		DOC. CERT. M.E.G.A. Lissa Martini