



MUSSARI S.r.l.

Traffleria tubi inox di alta precisione
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EN 10204 / 3.1

ABNACHNAPRUFZEUGNIS

CERTIFICAT DESSAIS

CERTIFICATO DI COLLAUDO

N 1580 - 2014
DATE / Datum / Data 7 maggio 2014

Comm. Nr. 657114

DELIVERY BILL - Lieberschein/Buletin de Livraison/Bolla di consegna
1186

CUSTOMER ORDER N° - Bestellungs/Comando Cliente/Ordine Cliente

2014056

MECHANICAL TEST

SPECIFICATIONS / Anforderungen / Specificazioni / Normative: ASTM A213/269 - HP Tubes

STEEL GRADE Materiale/Innuance	DIMENSIONS Abmessungen/Dimensioni	QUANTITY Menge/Quantità/Quantità	YIELD POINT Streckgrenze Limite di snervamento		TENSILE STRENGTH Zugfestigkeit Resistenza a trazione		ELONGATION Dehnung Allungamento		HARDNESS Härte Durezza		TECHNOLOGICAL TEST Technologische Prüfung Esami Tecnologici
			RP0.2% req.	N/mm ² result	Rm req.	N/mm ² result	% LO2 req.	result	HRB req.	result	
TP 316 - 316L	14.28 x 3.175 9/16"x0.312"	1942.90	≥ 517	996.6 986.8	≥ 724	1188.3 1176.7	≥ 22%	22.0 22.0	≥ 95, 98.0		FLARING TEST: =
											FLANGE TEST: =
											FLATTENING TEST: =
											BENDING REV. TEST: =
											RING FLATTENING TEST: =
											DRIFT EXPANDING TEST: =
											REMARKS Bemerkungen/Note/Note
											TP 316 - 316L 14.28 x 3.175 9/16"x0.312" PRODUCT ANALYSIS: 11-827 0.017 0.900 0.380 0.035 0.002 18.510 27070 smts tubes cold drawn HARD pickled nipples not kalt gezogen HART gebleizt - Tubes sans soudure étirés à froid Ecus décapés - Tubi senza saldatura trafilati a freddo (CRUDI) decapati ACC. TO BUTECH Spec : Part. 20-312-316 Suitable for 20,000 Psi HEAT TREATMENT: Wärmebehandlung/Treatment/Terminazione PMI TEST on each tube: Verniedrigung/Esai P.M.I./Prova alla macinazione Intergranular corrosion test acc. To AS2/Pract. E Korrosionskorrosionstest/Ruchständer/Esai residuo corrosiv/Prova residui corrosivi

100% hydrostatic pressure tested at 90,000 PSI During 30 sec : GOOD

Vasserdrukversuch/Esai Hidraulique/Prova idraulica
100% eddy current test acc.to A1016-NFA 49872-SEP 1914-ASTM A450/E42E-EN 10893-1-EN 10893-2-EN10246-2 : GOOD
Eddy current/Courant de Foucault/Eddy Current

Visual and Dimensional control :
Besichtigung und Ausmessung/controle Visuel et Dimensionnel/controle Visivo e Dimensionale

MARKING: Kennzeichnung/Marcage/Marcatura
MSR ASTM A213/269 TP 316-316L Heat Nr. Tubes Size 9/16" x 0.312" O.D. mm W.T. C.D. Tubes Suit. For 20,000 Psi Heat Nr.
OK Straightness control Geradenheit Kontrolle/Controlle de rectitude/Controllo rettitudine

We certify that the material described has been manufactured acc. With above standards and specifications and satisfies the order's requirements.
Mitt. bestätigen, dass die gefertigte Ware dem Besteller verschaffen entspricht/Note assicura que las producs. livrés sont conformes aux références de la commande/ho assicuro che il materiale specific è conforme ai requisiti dell'ordine

INSPECTION DEPARTMENT SIGNATURE
Mussari S.r.l.
Mussari S.r.l.

F9924
9/16" Medium Pressure Nipple 6" Long
FLOW TECHNOLOGY LTD
TEST CERTIFICATE
VERIFIED TRUE
COPY OF ORIGINAL