



MUSSARI S.R.L.

Traffleria tubi inox di alta precisione
Via Repubblica 11/B - Tel 031/390877 - 031/492476
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22075 LURATE CACCIOLONGO (ITALY)
web-site: www.mussari.com

TEST CERTIFICATE ACCORDING TO

EN 10204 / 3.1

ABNAHMEPRÜFZEUGNIS

CERTIFICAT D'ESSAIS

CERTIFICATO DI COLLAUDO

Comm. Int. Nr.

3177/12*

DELIVERY BILL - Lieferchein/Bulletin de Livraison/Bolla di consegna

116

N. 175 - 2013

DATE - Datum/Dato

17 gennaio 2013

CUSTOMER ORDER N° - Bestellung/Commande Clienti

2011195

MECHANICAL TEST

Meccaniche / Essai / Mecânica / Mecánica / Mecânica / Mecânica

ASTM A213/269 - HP Tubers

TECHNOLOGICAL TEST

Tecnologiche / Prüfung / Elementi Tecnologici / Prove tecnologiche

STEEL GRADE Werkstoff/Matériau Materiale	DIMENSIONS Abmessungen Dimensioni/Dimensioni	QUANTITY Menge/Quantità/Quantità	YIELD POINT Spéc. Déformation Limite d'élasticité		TENSILE STRENGTH Zugfestigkeit Résistance à la traction Limite de rupture		ELONGATION Élongation Allongement Alongamento		HARDNESS Dureté Durezza		
			MPa	kg/mm ²	req.	result	req.	result	req.	result	req.
TP 316 - 316L	3/4" x 0.156"	155.40	RP1.0%	991.3	≥ 517	≥ 724	1131.2	≥ 22%	22.0	≥ 95	95.0
			RP1.0% MIN/M2								
FLOW TECHNOLOGY LTD TEST CERTIFICATE VERIFIED TRUE COPY OF ORIGINAL											
STEEL GRADE Werkstoff/Matériau Materiale	DIMENSIONS Abmessungen Dimensioni/Dimensioni	HEAT N° Schmelze Coulée/Colla	%C MAX	%Mn MAX	%SI MAX	%P MAX	%S MAX	%NI MIN 10.08 MAX 14.09	%Cr MIN 18.00 MAX 18.00	%Mo MIN 2.00 MAX 3.00	%Ti
TP 316 - 316L	3/4" x 0.156"	YD11-831	0.021	1.160	0.460	0.038	0.005	10.160	18.890	2.080	
PRODUCT ANALYSIS:											

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

Wasserdruckversuch/essai hydraulique/Prova idraulica

100% eddy current test acc.to A1016-NFA 46872-SEP 1914-ASTM A450/E426-EN 10893-1-EN 10893-2-EN10246-1 : **GOOD**

Eddy current/Contraint de Foucaille/Eddy Current

Visual and Dimensional control : Visual et Dimensionnel/Controllo Visivo e Dimensionale

MARKING: Kennzeichnung/Marcage/Marcatura

MSR ASTM A213/269 TP 316-316L HP Tubers Suit For 20,000 Psi Size 3/4" x 0.156" C.D. Heat N°: Butech Spec. 2000

We certify that the material described has been manufactured acc. With above standards and specifications and satisfies the order's requirements.

Mit bescheinigen, dass die gelieferten Ware den Bestelleigenschaften entsprechen/sous attestations que les produits livrés sont conformes aux références de la commande/Noi attestiamo che il materiale spedito è conforme ai requisiti dell'ordine

MUSSARI

11/17/2013 10:30:00 AM

INSPECTION DEPARTMENT SIGNATURE

Urtara Ops Vissarsa/Verstärker/Verstärker

Vice de l'inspecteur

Valeo controllo di Qualità

MUSSARI S.R.L.

F10936

3/4" Medium Pressure Nipple x 4" Long 20K