



**MUSSARI S.r.l.**

Traffleria tubi inox di alta precisione  
Via Repubblica 11/B - Tel 031/390677 - 031/492476  
Fax 031/390010

22075 LURATE CACCVIO/COMO (ITALY)  
Web-site: www.mussari.com

IESI CERTIFICATE ACCORDING TO

EN 10204 / 3.1

ABNAHMERPRUFZEUGNIS

CERTIFICAT D'ESSAIS

CERTIFICATO DI COLLAUDO

N. 3888 - 2014

DATE - Datum/Date

11 dicembre 2014

CUSTOMER - Besteller/Client/Cliente :

CUSTOMER ORDER N° - Bestellung/Commande Client/Ordine Cliente

2014194

Comm. Nr. 2986/14\*

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

2833

**MECHANICAL TEST**

Mechanische Prüfungen/Essai Mécaniques/Caratteristiche meccaniche

SPECIFICATIONS Anforderungen/Specifications/Normative:

ASTM A 213/269 - smis Hard Acc. To Butech Spec.

STEEEL GRADE Werkstoff/Nuance Matériau	DIMENSIONS Abmessungen Dimensions/Dimensioni	QUANTITY Menge/Quantità/Quantia	YIELD POINT Streck-/Dehngrenze Limite d'élasticité Limite di snervamento		TENSILE STRENGTH Zugfestigkeit Résistance à traction Limite di rottura		ELONGATION Bruchdehnung Allongement % LO <sub>2</sub>		HARDNESS Härte Durezza		TECHNOLOGICAL TEST Technologische Prüfung Essai de Technologie Prova tecnologica
			MT PC	MP <sub>0.2%</sub> N/mm <sup>2</sup>	RP <sub>0.2%</sub> N/mm <sup>2</sup>	RM <sub>0.2%</sub> N/mm <sup>2</sup>	Req.	result	req.	result	
TP 316 - 316L	O.D. 3/8" x 0.203" ID O.D. 9.50 x 2.18 W.T.	1398,94	≥ 517	820,0 794,6	≥ 724	963,0 960,0	≥ 22%	22,0 23,0	≥ 95	98,0 99,0	FLARING TEST: Etwal/versucht/Evassern/Allargamento =
											FLANGE TEST: Krempen/versucht/Bordlager/Brudatura =
											FLATTENING TEST: Abflachung/versucht/Abflachsen/Schlämmen =
											BENDING REV. TEST: Fallversucht/Plange/Regamento =
											RING FLATTENING TEST: Ring Fallversucht/Ecasamenti anneau/Prova di Schiacciamento =
											DRIPT EXPANDING TEST: Aulwei/versucht/Mandrin. ann./Mandrinatura Anello =
<p><b>REMARKS</b> Bemerkingen/Notes/Note smis tubes cold drawn HARD pickled nailtesses rohr kalt gezogen HART gebeizt - Tubes sans soudure étirés à froid Ecroui décapés - Tubi senza saldatura trafilati a freddo CRUDI decapati</p>											
<p><b>HEAT TREATMENT:</b> Wärmebehandlung/Traitement/Termigo/trattamento termico N.A.</p>											
<p><b>PMI TEST on each tube:</b> Verwechslungsprüfung/Essai P.M.I./Prova anti mescolanze =</p>											
<p><b>Intergranular corrosion test acc. To A262/pract. E</b> Korrosionsförmende Rückstand/Essai résidus corrosif/Prova residui corrosivi =</p>											

FLOW TECHNOLOGY LTD  
TEST CERTIFICATE  
VERIFIED TRUE  
COPY OF ORIGINAL

Verified True Copy of Original  
Signature: [Handwritten Signature]  
Date: 23.3.15

100% Hydrostatic pressure tested at ===== During 5 sec :

Wasserdruckversuch/Essai Hydraulique/Prova Idraulica

100% eddy current test acc. to A1016-NFA 4987Z-SEP 1914-ASTM A450/E426-EN 10893-1-EN 10893-2-EN10246-2 : GOOD

Eddy current/Courant de Foucault/Eddy Current

Visual and Dimensional control :

Beschädigung und Ausmessung/Controlé Visuel et Dimensionnel/Controllo Visivo e Dimensionale

MARKING-Kennzeichnung/Marquage/Marcatura

MSR ASTM A 213/269 AISI 316-316L Heat N°: SMIS HARD Tubes Size 3/8" x 0.086" (ID=2.03") O.D. x mm W.T. (5.15mm ID), C.D. tubes Suit. For 20,000 PSI

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

Ni hochreinen, dass die gelieferte Ware den Besteller/onschriften entspricht/Nous attestons que les produits livrés sont conformes aux références de la commande/Nu attestiamo che il materiale spedito è conforme ai requisiti dell'ordine

Straightness control  
Geradheit Kontrolle/Controlle de rectitude/Controllo rettilineità

OK

OK

OK

OK

OK

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INSPECTION DEPARTMENT SIGNATURE

Vice control

Vice control

Vice control

Vice control

Vice control

Vice control

Vice control

Vice control

F10232 - 3/8" MEDIUM PRESSURE NIPPLE 4" LONG 20K 316L