



MUSSARI S.r.l.
 Trafileria tubi inox di alta precisione
 Via Repubblica 11/B - Tel 031/390677 - 031/492476
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22075 LURATE CACCIVIO/COMO (ITALY)
 web-site: www.mussari.com

CUSTOMER - Besteller/Cient/Ciente:

M E R I N O X B.V. - Kleine Beer, 18 - 2952 AS ALBLASSERDAM (HOLLAND)

Comm. Nr. 2028/17

DELIVERY BILL - Livierschein/Bulletin de Livraison/Bolla di consegna
 1682

N. 2154 - 2017
 DATE - Datum/Data
 25 luglio 2017

TEST CERTIFICATE ACCORDING TO

EN 10204 / 3.1
 ABNAHMEPRUFZEUGNIS
 CERTIFICAT D'ESSAIS
 CERTIFICATO DI COLLAUDO

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

2017141

MECHANICAL TEST

Mechanische Prüfungen/Essai Mécaniques/Caratteristiche meccaniche

SPECIFICATIONS Anforderungen/Specifications/Normative:
 ASTM A 213/269* - MSR-HP Tubes

STEEL GRADE Werkstoff/Nuance Materiale	DIMENSIONS Abmessungen/Dimensioni Dimensions/Dimensioni	QUANTITY Menge/Quantité/Quantità	YIELD POINT Streck-Dehngrenze Limite d'élasticité Limite di snervamento	TENSILE STRENGTH Zugfestigkeit Résistance à traction Limite di rottura	ELONGATION Bruchdehnung Allongement Allungamento	HARDNESS Härte Durezza Durezza	TECHNOLOGICAL TEST Technologische Prüfung Examen Technologique Prova tecnologiche	
								PC.
TP 316 - 316L	1/4" x 0.083" 6.35 x 2.10	317,53	≥ 689	≥ 758	≥ 18%	≥ 95	FLARING TEST: Erweiterversuch/Evasemento/Allargamento =	
			785,8	922,5	20,0	101,2	FLANGE TEST: Krempversuch/Bordage/Bordatura =	
			777,0	936,4	20,0	100,8	FLATTENING TEST: Abflachversuch/Aplatissement/Schiacciamento =	
			RP1.0%N/mm ²				BENDING REV. TEST: Falbversuch/Pilange/Piegamento =	
			req.	result			RING FLATTENING TEST: Ring Falbversuch/Ecrasement anneau/Prova di Schiacciamento =	
			%Si	%S	%Cr	%Ni	DRIFT EXPANDING TEST: Aulweitversuch/Mandrin.ann./Mandrinatura Anello =	
			MAX 0.75	MAX 0.03	MIN 16.00 MAX 18.00	MIN 10.00 MAX 14.00	REMARKS Bemerkungen/Notes/Note smls tubes cold drawn HARD pickled	
			%Mn	%P	%Mo	%Ti	nahtloses rohr kalt gezogen HART gebeizt - Tubes sans soudure étirés à froid Ecrut décapés - Tubi senza saldatura trafilati a freddo CRUDI decapati	
			MAX 2.00	MAX 0.045	MIN 2.00 MAX 3.00		*Only For Chemical Analysis	
			0.020	0.033	16,780	2,100	Suitable for 60.000 Psi	
			HEAT N° Schmelze Coulée/Colata	A03775	10,290	0,005	HEAT TREATMENT: Wärmebehandlung/Traitement Termique/trattamento termico N.A.	
			PRODUCT ANALYSIS:				PMI TEST on each tube: Verwechslungsprüfung/Essai P.M.I./Prova anti mescolanze =	
			PRODUCT ANALYSIS:				Intergranular corrosion test acc. To A262/pract. E Korrosionsfördernde Rückstände/Essai résiduels corrosif/Prova residui corrosivi =	

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

Wasserdruckversuch/Essai Hydraulique/Prova idraulica

100% eddy current test acc.to A1016-NFA 49872-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 :

Beichtigung und Ausmessung/Contrôle Visuel et Dimensionnel/Controllo Visivo e Dimensionale

OK Straightness control

Geradheit/Kontrolle/Contrôle de rectitude/Controllo rettilineità

MARKING-Kennzeichnung/Marque/Marcatura

MSR - ASTM A213/269 - AISI 316-316L Heat Nr.... MSR-HP Tubes Size 1/4"x0.083" O.D.....mm I.D. C.D. tubes Suit. For 60.000 PSI

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

Mir bezeugen, dass die gelieferte Ware den Bestellschriften entspricht/Nous attestons que les produits livrés sont conformes aux références de la commande/Noi attestiamo che il materiale spedito è conforme ai requisiti dell'ordine

F13792 - 1/4" HIGH PRESSURE NIPPLE 4" LONG 60K 316L



MUSSARI

tubificio tubi di alta precisione

