

ALUTAL CONTROLES IND. LTDA EPP
RUA MARILDA DE OLIVEIRA, NO.50
CNPJ: 07.092.005/0001-30
JARDIM MARIA DO CARMO
SP 18081-095 - SOROCABA
BRASILIEIN

Test report 2.2
according to DIN EN 10204:2005-01

Purchase order no.: Guilherme Franciulli
Date of order: 06.07.2011
Manufacturer's order no.: 3175142
Invoice no.: 5138799

Description of the product: **ALSINT 99,7**

Information about non-specific testing on test samples

Alsint 99,7

	dimension	values
content of Al ₂ O ₃	%	99,7
density	g/cm ³	3,75-3,94
flexural strength (3-point-bending test) 20°C	Mpa	300
young's modulus	GPa	300-380
Hardness (Mohs scale)		9
coefficient of thermal expansion		
20-700°C	10 ⁻⁶ * K ⁻¹	7,8
20-1000°C	10 ⁻⁶ * K ⁻¹	8,6
Thermal conductivity 20-200 °C	W * m ⁻¹ * K ⁻¹	25
water absorption	%	≤ 0,2
max. working temperature (depending on load)	°C	1700

Confirmation:

We hereby certify that the above mentioned products have been delivered in accordance with the terms of order.

Waldkraiburg, 19.08.2011

i. A. M. Piasek, Abt. Marketing Vertrieb

APROVADO
18/08/11
RESPONSABLE

R.I. 571/11

Tubo Cerâmico 710
Ø8,0 x 5,0 x 930 mm

MATERIAL Tubo Cerâmico 710

NF N° 3001

PC N° 7525

DATA 18/08/11

W. Haldenwanger Technische Keramik GmbH & Co. KG ist international zertifiziert nach
ISO 9001:2008 | ISO 14001:2004 | BS OHSAS 18001:2007



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persönlich haftende Gesellschafterin: Technische Keramik GmbH & Co. KG, Sitz: Waldkraiburg, Registergericht: AG Traunstein HRA 8917
letztlich vertreten durch: The Morgan Crucible Management GmbH, Sitz: Bad Neuenahr-Ahrweiler, Registergericht: AG Koblenz HRB 14174
Geschäftsführer der Morgan Crucible Management GmbH: Joachim Mayer, Edwin de Boer, Ian Chadwick, Klaus Hoffmann
Konto: Commerzbank AG Waldkraiburg, BLZ 711420 41, Konto 630 82 82 00, IBAN DE 33 7114 2041 0630 8282 00, SWIFT-BIC: COBADEFF712