

## Approval of Material Manufacturers *Zulassung von Werkstoffherstellern*

This is to certify that the works of  
*Hiermit wird bescheinigt, dass die Firma*

**ALCHEMIA S.A.  
ODDZIAŁ RUREXPOL W CZESTOCHOWIE  
CZESTOCHOWA, POLAND**

has been subjected to an approval test in accordance with GL Rules with satisfactory results and is approved for the manufacture of the following products:  
*einer Zulassungsprüfung nach den Vorschriften des GL unterzogen wurde und für die Herstellung folgender Erzeugnisse zugelassen ist:*

***Pipes for General Purpose  
in accordance with the GL-Rules for Metallic Materials,  
Chapter 2, Section 2, B***

***High-Temperature Steel Pipes  
in accordance with the GL-Rules for Metallic Materials,  
Chapter 2, Section 2, C***

This approval is granted provided that all products intended to be used for the construction of ships or installations classed with DNV GL comply in every respect with GL Rules and Requirements.

*Die Zulassung erfolgt unter der Voraussetzung, dass alle Erzeugnisse, die zum Bau von Schiffen und Anlagen mit Klasse der DNV GL SE bestimmt sind, die Vorschriften des GL in jeder Hinsicht erfüllen.*

Certificate of approval No. WZ 2309 HH 3  
*Zulassungsbescheinigung Nr.*

This Certificate is valid until: 2016-06-30  
*Diese Bescheinigung ist gültig bis:*

Part of the approval is our letter of approval ref. no. 010602-15 of 2015-04-22.  
*Bestandteil der Zulassung ist das Zulassungsanschreiben, Tgb.-Nr. 010602-15 vom 2015-04-22.*

Hamburg, 2015-04-22

**DNV GL SE**



Marcus von Busch



Stefan Röhr

Ref. no.: 010602-15

Manufacturer: Alchemia S.A. Oddzial Rurexpol w  
Czestochowie

List 2: Pipes

Grade	Key	Supply Condition (1)	max. Wall Thickness, mm	max. Diameter, mm	Remarks
GL-R360	NA	HF	36	273	
GL-R360	NA	N	36	273	
GL-R410	NA	HF	36	273	
GL-R410	NA	N	36	273	
GL-R490	NA	HF	36	273	
GL-R490	NA	N	36	273	
GL-R360W	NA	HF	36	273	
GL-R360W	NA	N	36	273	
GL-R410W	NA	HF	36	273	
GL-R410W	NA	N	36	273	

Key: -A Austenitic stainless steels    GS Welded Pipe    -HP Hollow Sections    NA Seamless Pipe    RF Pipe Fitting

(1):

AC, AF, AR = as cast, as forged, as rolled  
CR = controlled rolled  
F = ferritized  
HF = hot formed  
N = normalized

N+T = normalized + tempered  
Q+T = quenched + tempered  
SH = surface hardened  
S+Q = solution annealed + quenched  
TM = thermomechanically rolled

(2):

CC = continuous casting  
IC = ingot casting