

Approval of Material Manufacturers *Zulassung von Werkstoffherstellern*

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

**ROHRWERK MAXHÜTTE GMBH
92237 SULZBACH-ROSENBERG
GERMANY**

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.***

***Pipes Tough at Sub-Zero Temperatures
in accordance with the GL-Rules for Metallic Materials,
Chapter 2, Section 2, D.***

This approval is granted provided that all products intended to be used for the construction of ships or installations classed with DNV GL SE 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.
Zulassungsbescheinigung Nr.

WZ 0025 HH 8

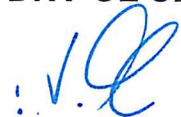
This Certificate is valid until:
Diese Bescheinigung ist gültig bis:

2017-05-31

Part of the approval is our letter of approval ref. no. 100969-14 of 2014-12-19.
Bestandteil der Zulassung ist das Zulassungsanschreiben, Tgb.-Nr. 100969-14 vom 2014-12-19.

Hamburg, 2014-12-19

DNV GL SE



Marcus von Busch



Christian Wildhagen

Ref. no.: 100969-14

Manufacturer: Rohrwerk Maxhütte GmbH

List 2: Pipes

Grade	Key	Supply Condition (1)	max. Wall Thickness, mm	max. Diameter, mm	Remarks
GL-R 360 and equivalent grades	NA	N or N+T	12	139,7	
GL-R 410 and equivalent grades	NA	N or N+T	12	139,7	
GL-R 460 and equivalent grades	NA	N or N+T	12	139,7	
GL-R 510 and equivalent grades	NA	N or N+T	12	139,7	
0,3Mo and equivalent grades	NA	N or N+T	12	139,7	
1Cr0,5Mo and equivalent grades	NA	N or N+T	12	139,7	
2,25Cr1Mo and equivalent grades	NA	N or N+T	12	139,7	
GL-R 360T and equivalent grades	NA	N or N+T	12	139,7	

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