

Approval of Material Manufacturers
Zulassung von Werkstoffherstellern



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

FORGITAL ITALY S.P.A.
36010 VELO D'ASTICO
ITALY

has been subjected to an approval test in accordance with the Society's Rules with satisfactory results and is approved for the manufacture of the following products:

einer Zulassungsprüfung nach den Vorschriften des Germanischen Lloyd unterzogen wurde und für die Herstellung folgender Erzeugnisse zugelassen ist:

Seamless rolled rings with rectangular and contoured sections made of:

**Unalloyed and low alloy steels
in accordance with GL-Rules for Metallic Materials,
Chapter 2, Section 3.B**

**Case hardening steels
in accordance with GL-Rules for Metallic Materials,
Chapter 2, Section 3.D**

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

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

Certificate of approval No.
Zulassungsbescheinigung Nr.

WZ 1223 HH 4

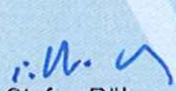
This Certificate is valid until:
Diese Bescheinigung ist gültig bis:

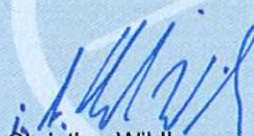
2017-06-30

Part of the approval is our letter of approval ref. no. 050214-14 of 2014-07-04.
Bestandteil der Zulassung ist das Zulassungsanschreiben, Tgb.-Nr. 050214-14 vom 2014-07-04.

Hamburg, 2014-06-20

Germanischer Lloyd


Stefan Röhr


Christian Wildhagen



Ref. no.: 050214-14

Manufacturer: Forgital Italy S.p.A.

List 3: Forgings

Grade	Key	Supply Condition (1)	max. Thickness, mm	max. Weight	Remarks
Carbon and carbon-manganese steel grades acc. to EN10083-2 and EN10250-2	FF	N, Q+T		30000 kg	ring rollings
Low alloy chromium-, chromium-molybdenum and chromium-nickel-molybdenum steel grades acc. to EN10083-3 and EN10250-2	FF	N, Q+T		30000 kg	ring rollings

Key: FA Fibre Flow Forging FF Hammer Forging GE Die Forging HZ Prematerial ST Forged Bars

List 9: Connecting Elements and Fittings

Grade	Key	Supply Condition (1)	max. Thickness, mm	max. Weight	max. Diameter, mm	Remarks
Carbon and carbon-manganese steel grades acc. to EN10083-2 and EN10250-2	NR	N, Q+T		30000 kg	7000	ring rollings
Low alloy chromium-, chromium-molybdenum and chromium-nickel-molybdenum steel grades acc. to EN10083-3 and EN10250-2	NR	N, Q+T		30000 kg	7000	ring rollings

Key: FL Flanges FT Fittings NR Seamless Rings RF Pipe Fittings VB Connecting Elements

(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