

Approval of Material Manufacturers  
*Zulassung von Werkstoffherstellern*



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

**COGNE ACCIAI SPECIALI S.P.A.**  
**AOSTA, 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:*

**Steelmaking and Rolled Products**  
**in accordance with the GL-Rules for Metallic Materials,**  
**Chapter 2, Section 1**

**Steel Forgings**  
**in accordance with the GL-Rules for Metallic Materials,**  
**Chapter 2, Section 3**

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. WZ 1656 HH 2  
*Zulassungsbescheinigung Nr.*

This Certificate is valid until: 2016-03-31  
*Diese Bescheinigung ist gültig bis:*

Part of the approval is our letter of approval ref. no. 042542-13 of 2013-05-03.  
*Bestandteil der Zulassung ist das Zulassungsanschreiben, Tgb.-Nr. 042542-13 vom 2013-05-03.*

Hamburg, 2013-05-03

**Germanischer Lloyd**

  
Michael Kühnel

  
Oliver Krömer

Ref. no.: 042542-13

Manufacturer: **Cogne Acciai Speciali S.p.A.****List 1: Plates, Strips, Sections and Bars, Prematerial**

Grade Remarks	Key	Supply Condition (1)	min. Thick- ness, mm	max. Thick- ness, mm	Casting Method (2)	Deoxidation	Microalloy
IMCO304 - 1.4301 acc. to COGNE Data Sheet	ST	S+Q	20	106	CC / IC	killed	acc. to standard
IMCO304L/1 - 1.4307 acc. to COGNE Data Sheet	ST	S+Q	20	106	CC / IC	killed	acc. to standard
IMCO316 - 1.4401 acc. to COGNE Data Sheet	ST	S+Q	20	106	CC / IC	killed	acc. to standard
IMCO316L - 1.4404 acc. to COGNE Data Sheet	ST	S+Q	20	106	CC / IC	killed	acc. to standard
IMCO316LM - 1.4435 acc. to COGNE Data Sheet	ST	S+Q	20	106	CC / IC	killed	acc. to standard
IMCO316T - 1.4571 acc. to COGNE Data Sheet	ST	S+Q	20	106	CC / IC	killed	acc. to standard
IMCO410 - 1.4006 acc. to COGNE Data Sheet	ST	Q+T	20	106	CC / IC	killed	acc. to standard
IMCO420A - 1.4021 acc. to COGNE Data Sheet	ST	Q+T	20	106	CC / IC	killed	acc. to standard
IMCO420B - 1.4028 acc. to COGNE Data Sheet	ST	Q+T	20	106	CC / IC	killed	acc. to standard
IMCO430F - 1.4104 acc. to COGNE Data Sheet	ST	Q+T	20	106	CC / IC	killed	acc. to standard
IMCO431 - 1.4057 acc. to COGNE Data Sheet	ST	Q+T	20	106	CC / IC	killed	acc. to standard
415M - 1.4418 acc. to COGNE Data Sheet	ST	Q+T	20	106	CC / IC	killed	acc. to standard
E415 - 1.4313 acc. to COGNE Data Sheet	ST	Q+T	20	106	CC / IC	killed	acc. to standard
Stainless Steels	HZ	AC	160	220	CC	killed	acc. to standard
Stainless Steels	HZ	AR	20	120	CC / IC	killed	acc. to standard

Key: BD Strip BF Wide Flats BL Plate FO Sections HZ Prematerial (Ingots, Slabs, Billets) ST Bars WFS Bulbflatbars

(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

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Manufacturer: **Cogne Acciai Speciali S.p.A.****List 3: Forgings**

Grade	Key	Supply Condition (1)	max. Thickness, mm	max. Weight	Remarks
IMCO304 - 1.4301 acc. to COGNE Data Sheet	ST	S+Q	415	10000 kg	
IMCO304L/1 - 1.4307 acc. to COGNE Data Sheet	ST	S+Q	415	10000 kg	
IMCO316 - 1.4401 acc. to COGNE Data Sheet	ST	S+Q	415	10000 kg	
IMCO316L - 1.4404 acc. to COGNE Data Sheet	ST	S+Q	415	10000 kg	
IMCO316LM - 1.4435 acc. to COGNE Data Sheet	ST	S+Q	415	10000 kg	
IMCO316T - 1.4571 acc. to COGNE Data Sheet	ST	S+Q	415	10000 kg	
IMCO410 - 1.4006 acc. to COGNE Data Sheet	ST	Q+T	415	10000 kg	
IMCO420A - 1.4021 acc. to COGNE Data Sheet	ST	Q+T	415	10000 kg	
IMCO420B - 1.4028 acc. to COGNE Data Sheet	ST	Q+T	415	10000 kg	
IMCO430F - 1.4104 acc. to COGNE Data Sheet	ST	Q+T	415	10000 kg	
IMCO431 - 1.4057 acc. to COGNE Data Sheet	ST	Q+T	415	10000 kg	
415M - 1.4418 acc. to COGNE Data Sheet	ST	Q+T	415	10000 kg	
E415 - 1.4313 acc. to COGNE Data Sheet	ST	Q+T	415	10000 kg	
Stainless Steels	HZ	AC		75000 kg	
Stainless Steels	HZ	AF	450	10000 kg	

Key: FA Fibre Flow Forging

FF Hammer Forging

GE Die Forging

HZ Prematerial

ST Forged Bars

(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