



DNV BUSINESS ASSURANCE

MATERIAL MANUFACTURE CERTIFICATE

Certificate No. 4592-2014-CE-ITA-DNV

This certificate consists of 4 pages.

This is to verify that

TERENZIANI CASTINGS S.r.l.

Via E. Fermi, 5 - 43056 San Polo di Torrile (PR) - Italy

for

Centrifuged stainless steel and special alloys

*has implemented and is maintaining a certified quality assurance system
which has undergone a specific assessment for materials*

*for applications covered by Directive 97/23/EC
on Pressure Equipment, and is found to comply with Annex 1, section 4.3, for*

acceptance of Type 3.1 Material certificates according to EN 10204:2004.

Further details are given in the following pages.

Place and date

Agrate Brianza, 2014-05-20

for the Notified Body 0496

Det Norske Veritas Italia S.r.l.

This certificate is valid until

2017-05-12

Giovanni Cortesi

Technical Reviewer

Renato Grottola

Management Representative

Lack of fulfilment of conditions as set out in the Certification Agreement may render this Certificate invalid.



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Certificate history

Revision	Description	Issue Date
00	Original certificate	2014-05-20

Approval conditions

Product: centrifuged special steels intended for production of flanges, pipes, parts of valves and products with spherical and cylindrical shape for pressure retaining equipment.

Steel types: stainless steel type martensitic, stainless steel type austenitic, stainless steel type ferritic-austenitic (duplex and superduplex), nichel base alloy, ni-resister alloy.

Stainless steel type martensitic		
Name	ACI/ASTM	UNS
410	A743 CA-15	J91150
420	A743 CA-40	J91153
431	A479 TIPE 431	S43100
CA6NM	A487 CA6NM	S41500
Stainless steel type ferritic-austenitic (duplex and superduplex)		
Name	ACI/ASTM	UNS
CD4MCuN	A890/995 1 B	J93372
CE8NN	A890/995 2 A	J93345
CD6MN	A890/995 3 A	J93371
CD3MN	A890/995 4 A	S31803 J92205
CE3MN	A890/995 5A	J93404 S32750
CD3MWCuN	A890/995 6A	J93380 S32760
Stainless steel type austenitic		
Name	ACI/ASTM	UNS
304	A451 CPF8	S30400
304L	A451 CPF3	S30403
304H	A451 CPF8A	S30409
309	A451 CPH20	S30900
310	A451 CPK20	S31000
316	A451 CPF8M	S31600
316L	A451 CPF3M	S31603
317	A743 CG8N	S31700
317L	A743 CG3N	S31703
321	A451 CPF8C	S32100
347	A451 CPF8C	S34700
NITRONIC 50	A743 CG6MMN	J93790
NITRONIC 60	A743 CF10SMnN	J92972
F44	A351-CK3MCuN	UNS-J93254

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Nichel base alloy		
Name	ACI/ASTM	UNS
CZ100	A494 CZ-100	N02100
M-35-1	A494 M-35-1	N24135
M-35-2	A494 M-35-2	N04020
M-30-H	A494 M-30 H	N24030
M-25S	A494 M-25S	N24025
M-30-C	A494 M-30-C	N24130
HASTELLOY B2	A494 N12MV	N30012
N7M	A494 N7M	N30007
HASTELLOY C276	A494 CW12MW	N30002
CW-6M	A494 CW-6M	N30107
HASTELLOY C4	A494 CW-2M	N26455
CY5SnBiM	A494 CY5SnBiM	N26055
HASTELLOY C22	A494 CX2MW	N26022
HASTELLOY G30	A494 CX2M	N26059
INCONEL 600	A494 CY40	N06040
INCONEL 625	A494 CW6MC	N26625
INCOLOY 825	A494 CU5MCuC	N08826
NI-Resist Alloy		
Name	ACI/ASTM	UNS
NI-RESIST 1B	A436 TYPE 1B	F41001
NI-RESIST 2B	A436 TYPE 2B	F41003
NI-RESIST D2	A439 D2	F43000
NI-RESIST D2B	A439 D2B	F43001
NI-RESIST D2C	A439 D2C	F43002
NI-RESIST D3	A439 D3	F43003
NI-RESIST D4	A439 D4	F43005
NI-RESIST T1	A436 TYPE 1	F41000
NI-RESIST T2	A436 TYPE 2	F41002
NI-RESIST T3	A436 TYPE 3	F41004
NI-RESIST T4	A436 TYPE 4	F41005

Initial inspection on the production site has been carried out by Det Norske Veritas Italia S.r.l., ref. Assessment Report dated 2014-04-22.

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Terms and conditions

- in case of damages caused by defective products, Council Directive 85/374/EC, as amended, will apply;
- the system approval is valid only for the material types listed above. For other material types, an application for extension of the certificate must be sent to Det Norske Veritas Italia S.r.l.;
- periodical audits and unexpected visits will be held, in order to verify that the manufacturer duly fulfils the obligations arising out of the approved quality system;
- the manufacturer shall fulfil the obligations arising out of the quality system as approved and uphold it so that it remains adequate and efficient;
- the manufacturer must give information of any intended adjustments of the Quality System to Det Norske Veritas Italia S.r.l., who will assess the changes and decide if the Statement remains valid;
- the manufacturer shall inform Det Norske Veritas Italia S.r.l. of the intended schedule of production for materials.

The following may render this statement invalid:

- changes in the quality system affecting production;
- periodical audits not held within the allowed time window.

END OF CERTIFICATE

Lack of fulfilment of conditions as set out in the Certification Agreement may render this Certificate invalid.