

PRODUCT:

SEAMLESS STAINLESS STEEL TUBES & PIPES

SIZE RANGE:

OD ¼" - OD 8,625"

CERTIFICATIONS:

NORSOK 650 (see below); ISO 17025

**CONFIRMATION**

of having fulfilled the requirements of

NORSOK Standard M-650 (Edition 4, September 2011)

Confirmation no.: 07-203-1326-NORSOK-0613/13

**Name and address
of the manufacturer:** PJSC Centravis Production Ukraine
Prospect Trubnikov 56
53201 Nikopol
UKRAINE

This is to confirm that the Manufacturer mentioned above has
 - knowledge and relevant manufacturing experience with the type of material tested
 - acceptable manufacturing facilities and equipment
 - established Manufacturing Summaries covering all manufacturing steps
 - an established heat treatment procedure
 - Quality System in conformity with EN ISO 9001:2008
 - demonstrated the results of product testing meeting the requirements of NORSOK Standard M-650

Approved: NORSOK Standard M-650, Edition 4, Section 4.2
Audit report no.: 1326WL21339 / 8110317237
Scope of approval: QTRs no. QTR01, QTR02, QTR03, QTR04
Production site: Prospect Trubnikov 56
53201 Nikopol
UKRAINE

This is also to declare that the qualification exercise has been carried out in co-operation with and verified by the TÜV NORD Systems GmbH & Co. KG as a Qualifying Company.

The resulting Qualification Test Records (QTRs) are reviewed and accepted.

Hamburg, 21.10.2013

Remark of validity:
Valid until : 01.10.2018

TÜV NORD Systems GmbH & Co. KG Tel.: +49-(0) 40-8557-2368
Grosse Bahnstrasse 31 Fax: +49-(0) 40-8557-2710
D - 22525 Hamburg / Germany e-mail: technikzentrum@tuev-nord.de



Marrek
TÜV NORD Systems GmbH & Co. KG

DUPLEX

SPECIFICATIONS:

ASTM A 789/A 789M, ASTM A 790/A 790M,
ASME SA-789/SA-789M, ASME SA-790/790M,
EN 10216-5, VD TUV 418

GRADES:

S31803/32205/1.4462

SPECIAL PROPERTIES:

An advanced heat treatment technology has been developed at Centravis for cold finished tubes that allows for UNS S 31803/S 32205 material to meet the mechanical properties of UNS S32750 and S 32760 without the loss of ductility and corrosion properties (offered as an option)

TESTS
(Results reported in MTR's)

Metallographic Examination:

FERRITE CONTENT PER ASTM E 562 (ASTM E 1245): 35-55%;
ASTM A-923 METHOD A (Detecting Detrimental Intermetallic Phase)

Charpy Impact Test:

ASTM A 923 METHOD B (AT -46C): MIN 54J
Testing at lower temperatures available

Corrosion Tests:

ASTM G48 METHOD A, ASTM A 923 METHOD C, ASTM A 262 METHOD B,
ASTM A 262 METHOD C, ASTM A 262 METHOD E

Chemical Composition:

PREN = % Cr + 3.3 % Mo + 16 % N ≥ 35.0

Actual Hardness Value (HRC) and Mechanical Testing Reported

END-USER SPECIFICATIONS:

DOW Chemical G8S-4001-51; G45-3213-00; PMI-55918

BP GPO-EN-SPE-36320; GPO-EN-SPE-18041;
GPO-EN-SPE-36103 PMI

Chevron CPM-SU-5011-F

Shell MESC SPE 74/014





SUPERDUPLEX

SPECIFICATIONS:

ASTM A 789/A 789M, ASTM A 790/A 790M, ASME SA-789/SA-789M, ASME SA-790/790M, EN 10216-5

GRADES:

S32750/1.4410, S32760/1.4501

TESTS

(Results reported in MTR's)

Metallographic Examination:

FERRITE CONTENT PER ASTM E 562 (ASTM E 1245): 35-55%;
ASTM A-923 METHOD A (Detecting Detrimental Intermetallic Phase)

Charpy Impact Test:

ASTM A 923 METHOD B (AT -46C): MIN 54J
Testing at lower temperatures available

Corrosion Tests:

ASTM G48 METHOD A, ASTM A 923 METHOD C, ASTM A 262 METHOD B, ASTM A 262 METHOD C, ASTM A 262 METHOD E

Chemical Composition:

PREN = % Cr + 3.3 % Mo + 16 % N ≥ 40.0

Actual Hardness Value (HRC) and Mechanical Testing Reported

END-USER SPECIFICATIONS:

DOW Chemical G8S-4001-51; G4S-3213-00; PMI-55918

BP GPO-EN-SPE-36320; GPO-EN-SPE-18041; GPO-EN-SPE-36103 PMI

Chevron CPM-SU-5011-F

Shell MESC SPE 74/014