



INERIS

INSTITUT NATIONAL DE L'ENVIRONNEMENT INDUSTRIEL ET DES RISQUES
NATIONAL INSTITUTE FOR INDUSTRIAL ENVIRONMENT AND RISK

- decree nr 90-1089, 7 December 1990 -
- order from the Minister of Industry, 20 December 1996 -



EXPLOSIVES FOR CIVIL USES

- 1 - EC TYPE-EXAMINATION CERTIFICATE
- 2 - **0080.EXP.99.0001**
- 3 - This certificate is relating to the following product :
tool "Colliding Detonation drill collar Cutter" (CDC) type 1
- 4 - This product is manufactured by :
SWETECH AB
Kontorsvågen 2
S - 69180 KARLSKOGA (SWEDEN)

The applicant for the examination is :
SWETECH AB
Kontorsvågen 2
S - 69180 KARLSKOGA (SWEDEN)
- 5 - The above named product is specified in the enclosed appendix.
- 6 - The National Institute for Industrial Environment and Risk (INERIS), notified with the identification number 0080 in accordance with the article 6.2 of the Council Directive 93/15/EEC, 5 April 1993, testifies that :

The above named product model is recognized to conform to Essential Safety Requirements as defined in annex I of that Directive.
- 7 - In addition to the EC type-examination (module B) defined in annex II of the Directive, the applicant has retained the assessment of the conformity to type (module C) defined in the same annex. The decision for the assessment has been notified to the manufacturer.

Verneuil-en-Halatte, 13 January 1999

The Chief Executive Officer of INERIS
By delegation, the Director of Government Laboratories



C. MICHOT

Folio 1/2

INERIS, maîtriser les risques, protéger l'environnement



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Appendix to the EC type-examination certificate nr 0080.EXP.99.0001

A1 - PRODUCT NAME : tool named "Colliding Detonation drill collar Cutter" (CDC)
 type 1

A2 - PRODUCT DESCRIPTION :

general identification :

- family : charge, explosive, commercial
- sub-family : cutting charge
- main explosive : HMX
- mass of main explosive : 0.50 kg
- booster (3) explosive : HNS
- mass of booster (3) explosive : 0.05 kg
- detonating cord for transmission
 to 2 initiating boosters : 2 equal lengths of miniature non disruptive detonating cord
- diameter : 45.5 mm (1 3/4")
- transportation length : 974 mm (38.3")
- length, assembled, ready for
 use : 1532 mm (60.3")
- mass : 8.6 kg
- reference : 101000/8

general conditions :

- shelf life : 5 years min.
- limit temperature for use : 204°C (400 F)/1 h
- limit temperatures/hygrometry
 for storage : - 30°C/+ 60°C/90 % RH max



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 INSTITUT NATIONAL DE L'ENVIRONNEMENT
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 60550 VERNEUIL EN HALATTE
 Tél. 03 44 55 66 77 - Fax 03 44 55 66 99
 SIRET 381 984 921 00019 - APE 743 B

A3 - DOCUMENTATION :

	reference	date	origin
- examination report	: EXI-LDu-DAC-CMi/ST - 1999 - Ag CE 13/2	13/01/99	INERIS

A4 - PARTICULAR CONDITIONS FOR USE :

as specified by ETUDES ET PRODUCTIONS SCHLUMBERGER (EPS)

A5 - MARKING :

- CE and symbol of Notified
 Body : in conformity with paras 1 and 4 of module C in annex II of
 the Directive
- others : batch number, certificate nr



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INSTITUT NATIONAL DE L'ENVIRONNEMENT INDUSTRIEL ET DES RISQUES

- décret n° 90-1089 du 7 décembre 1990 -
- arrêté du ministère de l'industrie du 20 décembre 1996 -



EXPLOSIFS A USAGE CIVIL

- 1 - ATTESTATION d'EXAMEN CE de TYPE
- 2 - **0080.EXP.99.0002**
- 3 - La présente attestation porte sur le produit suivant :
outil "Colliding Detonation drill collar Cutter" (CDC) type 2
- 4 - Ce produit est fabriqué par :
SWETECH AB
Kontorsvågen 2
S - 69180 KARLSKOGA (SUEDE)

Le demandeur de l'examen est :
SWETECH AB
Kontorsvågen 2
S - 69180 KARLSKOGA (SUEDE)
- 5 - Le produit désigné ci-avant est spécifié dans l'annexe ci-jointe.
- 6 - L'Institut National de l'Environnement Industriel et des Risques (INERIS), établissement public à caractère industriel et commercial, notifié sous le numéro d'identification 0080 conformément à l'article 6.2 de la directive 93/15/CEE du Conseil du 5 avril 1993, atteste que :

Le modèle du produit désigné ci-avant est reconnu conforme aux exigences essentielles de sécurité telles que définies en annexe I de cette directive.
- 7 - En complément de l'examen CE de type (module B) défini à l'annexe II de la directive, le demandeur a retenu l'évaluation de la conformité au type (module C) définie à la même annexe. La décision d'évaluation a été notifiée au fabricant.

Verneuil-en-Halatte, le 13 janvier 1999

Le Directeur Général de l'INERIS
Par délégation, le Directeur des Laboratoires Agréés



C. MICHOT



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Annexe à l'attestation d'examen CE de type n° 0080.EXP.99.0002

A1 - DESIGNATION DU PRODUIT : outil nommé "Colliding Detonation drill collar Cutter" (CDC) type 2

A2 - DESCRIPTION DU PRODUIT :

identification générale :

- famille : charge explosive industrielle
- sous-famille : charge de découpage
- explosif principal : HNS
- masse d'explosif principal : 0,50 kg
- explosif de relais (3) : HNS
- masse d'explosif de relais (3) : 0,05 kg
- cordeau détonant de transmission aux 2 relais d'amorçage : 2 longueurs égales de cordeau miniature, sans effet perturbateur
- diamètre : 45,5 mm (1 3/4")
- longueur pour le transport : 974 mm (38,3")
- longueur à l'état assemblé, prêt pour l'emploi : 1532 mm (60,3")
- masse : 8,6 kg
- référence : 102000/8

conditions générales :

- durée de vie : 5 ans min.
- température limite d'utilisation : 260°C/1 h
- températures/hygro-métrie limites de stockage : - 30°C/+ 60°C/90 % HR max

A3 - DOCUMENTATION :

- | | référence | date | origine |
|--------------------|---|----------|---------|
| - rapport d'examen | : EXI-LDu-DAC-CMi/ST -
1999 - Ag CE 13/2 | 13/01/99 | INERIS |

A4 - CONDITIONS PARTICULIERES D'UTILISATION :

comme spécifié par ETUDES ET PRODUCTIONS SCHLUMBERGER (EPS)

A5 - MARQUAGE :

- CE et symbole de l'organisme notifié : conformément aux § 1 et 4 du module C de l'annexe II à la directive
- autres : numéro du lot, n° d'attestation





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EXPLOSIVES FOR CIVIL USES

- 1 - EC TYPE-EXAMINATION CERTIFICATE
- 2 - **0080.EXP.99.0003**
- 3 - This certificate is relating to the following product :
tool "Colliding Detonation drill collar Cutter" (CDC) type 3
- 4 - This product is manufactured by :
SWETECH AB
Kontorsvågen 2
S - 69180 KARLSKOGA (SWEDEN)

The applicant for the examination is :
SWETECH AB
Kontorsvågen 2
S - 69180 KARLSKOGA (SWEDEN)
- 5 - The above named product is specified in the enclosed appendix.
- 6 - The National Institute for Industrial Environment and Risk (INERIS), notified with the identification number 0080 in accordance with the article 6.2 of the Council Directive 93/15/EEC, 5 April 1993, testifies that :

The above named product model is recognized to conform to Essential Safety Requirements as defined in annex I of that Directive.
- 7 - In addition to the EC type-examination (module B) defined in annex II of the Directive, the applicant has retained the assessment of the conformity to type (module C) defined in the same annex. The decision for the assessment has been notified to the manufacturer.



Verneuil-en-Halatte, 13 January 1999

The Chief Executive Officer of INERIS
By delegation, the Director of Government Laboratories

C. MICHOT

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Appendix to the EC type-examination certificate nr 0080.EXP.99.0003

A1 - PRODUCT NAME : tool named "Colliding Detonation drill collar Cutter" (CDC)
type 3

A2 - PRODUCT DESCRIPTION :

general identification :

- family : charge, explosive, commercial
- sub-family : cutting charge
- main explosive : HMX
- mass of main explosive : 0.85 kg
- booster (3) explosive : HNS
- mass of booster (3) explosive : 0.05 kg
- detonating cord for transmission
to 2 initiating boosters : 2 equal lengths of miniature non disruptive detonating cord
- diameter : 57.0 mm (2 1/4")
- transportation length : 974 mm (38.3")
- length, assembled, ready for
use : 1542 mm (60.7")
- mass : 11 kg
- reference : 301000/1

general conditions :

- shelf life : 5 years min.
- limit temperature for use : 204°C (400 F)/1 h
- limit temperatures/hygrometry
for storage : - 30°C/+ 60°C/90 % RH max



A3 - DOCUMENTATION :

- | | reference | date | origin |
|----------------------|---|----------|--------|
| - examination report | : EXI-LDu-DAC-CMi/ST -
1999 - Ag CE 13/2 | 13/01/99 | INERIS |

A4 - PARTICULAR CONDITIONS FOR USE :

as specified by ETUDES ET PRODUCTIONS SCHLUMBERGER (EPS)

A5 - MARKING :

- CE and symbol of Notified
Body : in conformity with paras 1 and 4 of module C in annex II of
the Directive
- others : batch number, certificate nr



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EXPLOSIVES FOR CIVIL USES

- 1 - EC TYPE-EXAMINATION CERTIFICATE
- 2 - **0080.EXP.99.0002**
- 3 - This certificate is relating to the following product :
tool "Colliding Detonation drill collar Cutter" (CDC) type 2
- 4 - This product is manufactured by :
SWETECH AB
Kontorsvågen 2
S - 69180 KARLSKOGA (SWEDEN)

The applicant for the examination is :
SWETECH AB
Kontorsvågen 2
S - 69180 KARLSKOGA (SWEDEN)
- 5 - The above named product is specified in the enclosed appendix.
- 6 - The National Institute for Industrial Environment and Risk (INERIS), notified with the identification number 0080 in accordance with the article 6.2 of the Council Directive 93/15/EEC, 5 April 1993, testifies that :

The above named product model is recognized to conform to Essential Safety Requirements as defined in annex I of that Directive.
- 7 - In addition to the EC type-examination (module B) defined in annex II of the Directive, the applicant has retained the assessment of the conformity to type (module C) defined in the same annex. The decision for the assessment has been notified to the manufacturer.



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Appendix to the EC type-examination certificate nr 0080.EXP.99.0002

A1 - PRODUCT NAME : tool named "Colliding Detonation drill collar Cutter" (CDC)
type 2

A2 - PRODUCT DESCRIPTION :

general identification :

- family : charge, explosive, commercial
- sub-family : cutting charge
- main explosive : HNS
- mass of main explosive : 0.50 kg
- booster (3) explosive : HNS
- mass of booster (3) explosive : 0.05 kg
- detonating cord for transmission
to 2 initiating boosters : 2 equal lengths of miniature non disruptive detonating cord
- diameter : 45.5 mm (1 3/4")
- transportation length : 974 mm (38.3")
- length, assembled, ready for
use : 1532 mm (60.3")
- mass : 8.6 kg
- reference : 102000/8

general conditions :

- shelf life : 5 years min.
- limit temperature for use : 260°C (500 F)/1 h
- limit temperatures/hygrometry
for storage : - 30°C/+ 60°C/90 % RH max



INSTITUT NATIONAL DE L'ENVIRONNEMENT
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SIRET 381 984 921 00019 - APE 743 B

A3 - DOCUMENTATION :

- | | reference | date | origin |
|----------------------|---|----------|--------|
| - examination report | : EXI-LDu-DAC-CMi/ST -
1999 - Ag CE 13/2 | 13/01/99 | INERIS |

A4 - PARTICULAR CONDITIONS FOR USE :

as specified by ETUDES ET PRODUCTIONS SCHLUMBERGER (EPS)

A5 - MARKING :

- CE and symbol of Notified
Body : in conformity with paras 1 and 4 of module C in annex II of
the Directive
- others : batch number, certificate nr



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EXPLOSIVES FOR CIVIL USES

- 1 - EC TYPE-EXAMINATION CERTIFICATE
- 2 - **0080.EXP.99.0004**
- 3 - This certificate is relating to the following product :
tool "Colliding Detonation drill collar Cutter" (CDC) type 4
- 4 - This product is manufactured by :
SWETECH AB
Kontorsvågen 2
S - 69180 KARLSKOGA (SWEDEN)

The applicant for the examination is :
SWETECH AB
Kontorsvågen 2
S - 69180 KARLSKOGA (SWEDEN)
- 5 - The above named product is specified in the enclosed appendix.
- 6 - The National Institute for Industrial Environment and Risk (INERIS), notified with the identification number 0080 in accordance with the article 6.2 of the Council Directive 93/15/EEC, 5 April 1993, testifies that :

The above named product model is recognized to conform to Essential Safety Requirements as defined in annex I of that Directive.
- 7 - In addition to the EC type-examination (module B) defined in annex II of the Directive, the applicant has retained the assessment of the conformity to type (module C) defined in the same annex. The decision for the assessment has been notified to the manufacturer.



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Appendix to the EC type-examination certificate nr 0080.EXP.99.0004

A1 - PRODUCT NAME	:	tool named "Colliding Detonation drill collar Cutter" (CDC) type 4
A2 - PRODUCT DESCRIPTION :		
general identification :		
- family	:	charge, explosive, commercial
- sub-family	:	cutting charge
- main explosive	:	HNS
- mass of main explosive	:	0.85 kg
- booster (3) explosive	:	HNS
- mass of booster (3) explosive	:	0.05 kg
- detonating cord for transmission		
to 2 initiating boosters	:	2 equal lengths of miniature non disruptive detonating cord
- diameter	:	57.0 mm (2 1/4")
- transportation length	:	974 mm (38.3")
- length, assembled, ready for use	:	1542 mm (60.7")
- mass	:	11 kg
- reference	:	601000/0
general conditions :		
- shelf life	:	5 years min.
- limit temperature for use	:	260°C (500 F)/1 h
- limit temperatures/hygrometry for storage	:	- 30°C/+ 60°C/90 % RH max
A3 - DOCUMENTATION :		
- examination report	:	reference EXI-LDu-DAC-CMi/ST - 1999 - Ag CE 13/2
		date 13/01/99
		origin INERIS
A4 - PARTICULAR CONDITIONS FOR USE :		
as specified by ETUDES ET PRODUCTIONS SCHLUMBERGER (EPS)		
A5 - MARKING :		
- CE and symbol of Notified Body	:	in conformity with paras 1 and 4 of module C in annex II of the Directive
- others	:	batch number, certificate nr





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EXPLOSIVES FOR CIVIL USES

- 1 - EC TYPE-EXAMINATION CERTIFICATE
- 2 - **0080.EXP.99.0005**
- 3 - This certificate is relating to the following product :
tool "Colliding Detonation drill collar Cutter" (CDC) type 5
- 4 - This product is manufactured by :
SWETECH AB
Kontorsvågen 2
S - 69180 KARLSKOGA (SWEDEN)

The applicant for the examination is :
SWETECH AB
Kontorsvågen 2
S - 69180 KARLSKOGA (SWEDEN)
- 5 - The above named product is specified in the enclosed appendix.
- 6 - The National Institute for Industrial Environment and Risk (INERIS), notified with the identification number 0080 in accordance with the article 6.2 of the Council Directive 93/15/EEC, 5 April 1993, testifies that :

The above named product model is recognized to conform to Essential Safety Requirements as defined in annex I of that Directive.
- 7 - In addition to the EC type-examination (module B) defined in annex II of the Directive, the applicant has retained the assessment of the conformity to type (module C) defined in the same annex. The decision for the assessment has been notified to the manufacturer.

Verneuil-en-Halatte, 13 January 1999

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Appendix to the EC type-examination certificate nr 0080.EXP.99.0005

A1 - PRODUCT NAME : tool named "Colliding Detonation drill collar Cutter" (CDC) type 5

A2 - PRODUCT DESCRIPTION :

general identification :

- family : charge, explosive, commercial
- sub-family : cutting charge
- main explosive : HNS
- mass of main explosive : 0.20 kg
- booster (3) explosive : HNS
- mass of booster (3) explosive : 0.05 kg
- detonating cord for transmission to 2 initiating boosters : 2 equal lengths of miniature non disruptive detonating cord
- diameter : 35.0 mm (1 3/8")
- transportation length : 805 mm (31.7")
- length, assembled, ready for use : 1379 mm (54.3")
- mass : 6.8 kg
- reference : 501000/0

general conditions :

- shelf life : 5 years min.
- limit temperature for use : 260°C (500 F)/1 h
- limit temperatures/hygrometry for storage : - 30°C/+ 60°C/90 % RH max



A3 - DOCUMENTATION :

- | | reference | date | origin |
|----------------------|--|----------|--------|
| - examination report | : EXI-LDu-DAC-CMi/ST - 1999 - Ag CE 13/2 | 13/01/99 | INERIS |

A4 - PARTICULAR CONDITIONS FOR USE :

as specified by ETUDES ET PRODUCTIONS SCHLUMBERGER (EPS)

A5 - MARKING :

- CE and symbol of Notified Body : in conformity with paras 1 and 4 of module C in annex II of the Directive
- others : batch number, certificate nr

To whom it may concern,

We, SwETech AB, Kontorsvägen 2, SE-691 80 Karlskoga, Sweden, give:

SCHLUMBERGER GMBH
RUDOLF DIESEL STRASSE 23
VECHTA Post: 49377
GERMANY

the permission to use the Colliding Detonation drill collar Cutters, CDC types
1 – 5, in Poland according to the following:

CDC type 1: B077055, CE-classification 0080.EXP.99.0001
CDC type 2: B077056, CE-classification 0080.EXP.99.0002
CDC type 3: B077566, CE-classification 0080.EXP.99.0003
CDC type 4: B078468, CE-classification 0080.EXP.99.0004
CDC type 5: B078469, CE-classification 0080.EXP.99.0005

Karlskoga, May 19, 2011

SwETech AB



Staffan Karlsson
Managing Director

Visaed 2011 -05- 20

THE CHAMBER OF COMMERCE MÅLARDALEN
for the Provinces of Örebro and Västmanland
Sweden

