



1st addendum (translation)

according to Directive 94/9/EC Annex III, section 6 of the

EC-Type Examination Certificate

No. FSA 05 ATEX 1556X



Comil ®

of the company

Quadro Engineering
613 Colby Drive, Waterloo, Ontario N2V 1A1
CANADA

Description of the addendum:

The Quadro Comil is a conical screen, size reduction mill. Product enters the top of the mill and is forced through a cone shaped, perforated screen by a rotating impeller. The product is size reduced as it passes through the screen and it then exits the bottom of the mill.

Devices in Category 1 meeting the designation in (12) achieve their very high protection level only in conjunction with at least one of the two following protection measures: "pressure shock resistant / pressure resistant design" or "Inerting".

In this **amendment** another method for achieving Category 1 (inside) is described. This approach is restricted to dusts with MIE equal or above 3 mJ and MIT above 300°C. Flammable solvents are not allowed inside the Comil. In this approach the additional measures "Pressure shock resistant design" or "inerting" are not necessary if protection by control of ignition sources according **EN 13463-6 (July 2005)** is applied so that:

the bearing temperature, screen temperature and mill amperage is controlled. According to Section 8.3 of EN 13463-6:2005, the Ignition Protection System (IPS) for Category 1 during a rare malfunction must be a minimum protection level of IPL1. These measures shall be assured by adhering to the minimum requirements cited in Chapter 9 of the ATEX Technical File – Comil.

The marking of the equipment shall include the following:

⊕ II 1D b 135°C (internal) / 2GD 135°C (external)
FSA 05 ATEX 1556 X



If the Comil does not fulfil category 2GD externally the identification has to be changed to suit the category the Comil fulfils externally.

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The overdriven Comil is rated at 135°C for product temperatures up to 70°C for higher product temperatures (up to 120°C) it is rated at 200°C. The underdriven Comil is rated at 135°C for product temperatures up to 60°C for higher product temperatures (up to 120°C) it is rated at 200°C. Other values may be necessary for the identification of the Comil if the electrical components have higher maximum surface temperatures.

FSA GmbH Certification Service, notified body number 0588 in accordance with article 9 of Directive 94/9/EC of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the first addendum of the report number G-15 05-07Z.

Special requirements:

The special requirements described under point 17 of the EC-Type Examination Certificate No. FSA 05 ATEX 1556X remain valid.

Essential safety requirements:

The essential safety requirements described under point 18 of the EC-Type Examination Certificate No. FSA 05 ATEX 1556X remain valid.



Mannheim, 10. December 2007

(Prof. Dr. S. Radandt)
Manager Notified body

(Dr. A. Arnold)
Certificate provider

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