
Sender:

To:
Institut für Arbeitsschutz der DGUV (IFA)
Bereich „Explosionsschutz“
Alte Heerstrasse 111
53757 Sankt Augustin, Germany

Determining of combustion and explosion properties of dusts based upon the comments

| | |
|---|--|
| <p>1 Name and address of the company: Name:</p> <p>Address:</p> <p>Contact person in the company:</p> <p>Our ref.:</p> <p>Telephone number:</p> <p>E-mail address:</p> | |
| <p>2 Invoice address</p> <p>Name and address of the company:</p> <p>VAT No.</p> <p>Address:</p> <p>Contact person for the invoice:</p> <p>Telephone number:</p> <p>E-mail address:</p> | |

| | | |
|------------|--|--|
| 3 | Sample No: | |
| 3.1 | Substance name | |
| 3.2 | Processing method More detailed information on the processing method generating the dust. | |
| 3.3 | Trade name, if applicable | |
| 3.4 | Manufacturer/supplier, if applicable | |
| 3.5 | Material data Composition For example: individual components of mixtures | |
| 3.6 | Known properties For example: toxicity, toxic combustion products (the material safety data sheet is appended if available) | |
| 3.7 | Sampling point For example: collector, pipe, grinder, etc. (photographs appended if applicable) | |
| 3.8 | Name of the person who took the sample | |

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|----------|---|--|--|--|
| 4 | Laboratory tests (please tick desired test) | | | |
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| Sample preparation | | Parameters | Required sample quantity | |
|--------------------|--|--------------------------|--------------------------|---|
| Fee No | Item | | | |
| 14010 | Particle-size distribution and moisture measurement | Median [μm] | Approx. 50 g | X |
| | Testing in the original state (without fractionation and drying) | Selection required | | |
| 14020/14021 | Fractionation (see explanations) | | | |

Note: 14010 (optionally 14020/14021) and 14030 always form part of the basic test.

| Deposited dust | | | | |
|----------------|--|----------------|---------------|---|
| 14030 | Determining of the burning class | BC | Approx. 200 g | X |
| 14031 | Determining of the burning class (100 °C) | BC (100 °C) | Approx. 200 g | |
| 14032 | UN classification N. 1 Sub-class 4.1 | BC (UN) | Approx. 500 g | |
| 14040 | Minimum ignition temperature of the 5 mm dust layer | GT | Approx. 1 kg | |
| 14050 | Auto-ignition behaviour of a dust accumulation, in accordance with <i>Grewer</i> | AIG | Approx. 200 g | |
| 14051 | Auto-ignition behaviour of a dust accumulation (hot storage test, isoperibol method) | AIT | Approx. 20 kg | |
| 14060 | Sensitivity to shock in accordance with <i>Lütolf</i> | SL | Approx. 200 g | |
| 14070 | Specific electrical resistance of a dust accumulation | R _D | Approx. 200 g | |

| Raised dust | | | | |
|-------------|--|---|---------------|--|
| 14080 | Screening test of explosibility with modified Hartmann apparatus (only ST 1 can be determined) | ST 1 | Approx. 500 g | |
| 14092 | Explosion parameters of dust/air mixtures, 20-l-sphere | LEL, P _{max} , K _{St} | Approx. 3 kg | |
| 14100 | Explosion parameters of dust/air mixtures, 1-m ³ -vessel | LEL, P _{max} , K _{St} | Approx. 25 kg | |
| 14101 | Limiting oxygen concentration of dust/air mixtures, 1-m ³ -vessel (only in conjunction with Fee No 14100) | LOC | Approx. 5 kg | |
| 14110 | Minimum ignition energy of dust/air mixtures, with inductivity | MIE | Approx. 2 kg | |
| 14111 | Minimum ignition energy of dust/air mixtures, without inductivity | MIE | Approx. 2 kg | |
| 14112 | Minimum ignition energy of dust/air mixtures, with and without inductivity | MIE | Approx. 4 kg | |
| 14120 | Minimum ignition temperature of raised dusts | MIT | Approx. 500 g | |

Further comments:

The general purchase terms and conditions of the contracting entity do not apply. This applies even if the application was not expressly contradicted.

Date:

Signature: