
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

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

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) Carcinogenic substances of category 1A & 1B (H350, H350i) are excluded from the testing. In the case of acute toxicity category 1 & 2 (H300, H310, H330) tests can be carried out provided that the mass fraction does not exceed 7%. In the case of acute toxicity category 3 (H301, H311, H331), tests can be carried out provided the mass fraction does not exceed 25%.	
3.7	Sampling point For example: collector, pipe, grinder, etc. (photographs appended if applicable)	
3.8	Name of the person who took the sample	

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) is always part of the basic test.

Deposited dust				
14030	Determining of the burning class	BC	Approx. 200 g	
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: