



wagner  
magnete

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## Explosion-proof appliances according to ATEX 95 (RL 94/9 CE)

### 1. Responsibility

- We provide our customers with any appropriate and helpful information regarding correct use.
- Our customers are responsible for asking for the necessary criteria and properties.
- The operator is responsible for
  - observing the capacities of our appliances
  - avoiding explosive atmospheres and for reducing the risk of explosion or limiting it temporally.
- Wagner Magnete provides their customers with operating instructions who are then responsible its compliance.

**The declaration of conformity according to RL 94/9 CE will forfeit in case of any non-compliance of the operating instructions!**

- Wagner Magnete prepares a checklist during the bidding/order placement stage in cooperation with the client, which will then become part of the order documentation.
- Separation of zones according to ATEX 137 (RL 92 EG) must not be carried out by Wagner Magnete.

### 2. Field of application and delivery of Wagner appliances in potentially explosive atmospheres

#### 2.1 Appliance groups

Appliance group	Use	Remarks
I	Mining	not available
II	any other appliances	available

#### 2.2 Separation of zones/groups of appliances for appliance group II

For zone 0/1/2 G (gases) no appliances are available. For medium dust with classification D we can provide appliances for the following areas and categories:

Zone	Probability of occurrence of potentially explosive atmospheres	Groups of appliances	Safety	Remarks
20	steady, long-term, frequent use	1 D	very high degree of safety in case of seldom device faults!	not available
21	occasional, during normal operation	2 D	high degree of safety In case of to be expected device faults!	limited available
22	seldom, short-term	3 D	Normal degree of safety During normal operation!	available for non-conductive dust

#### 2.3 Kind of ignition protection

For non-electric appliances for the use in potentially explosive atmospheres our products are classified with protection by constructional safety "c" according to EN 13463-5.

#### 2.4 Hazard analysis / Testing / Certificates

The hazard analysis is made according to EN 1127-1. For category 3 D appliances Wagner performs an internal production control with declaration of conformity of the manufacturer according to RL 94/9 CE Annex VIII..

#### 2.5 Documentation required to ensure explosion protection for the customer

- Checklist regarding any relevant data concerning explosion protection
- Data sheet on the use of the various types to define the technical data
- Operating instructions with declaration of conformity according to RL 94/9 EG and serial plate

#### 2.6 Marking (example)



Ex-mark \_\_\_\_\_

Appliance group \_\_\_\_\_

Category \_\_\_\_\_

Ex-atmosphere \_\_\_\_\_

Kind of ignition \_\_\_\_\_

Maximum surface temperature for dust deposit of 5 mm \_\_\_\_\_

Marking of ambient temperature deviating from standard \_\_\_\_\_



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## CHECKLIST - Explosion protection data

To design Wagner appliances according to CE Standard 94/9/CE it is indispensable to fill in this form and to answer any open questions regarding explosion protection carefully.

Company: \_\_\_\_\_

Address: \_\_\_\_\_

Department: \_\_\_\_\_ Contact: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_ e-mail: \_\_\_\_\_

Type: \_\_\_\_\_ Order no.: \_\_\_\_\_ Appliance no.: \_\_\_\_\_

Remarks: \_\_\_\_\_

### Appliance group, groups of appliances, separation of zones and medium

Appliance group	
I	not possible
II	<input checked="" type="checkbox"/>

Zone	Groups of appliances	
20	1 D	not possible
21	2 D	<input type="checkbox"/>
22	3 D	<input type="checkbox"/>

Medium/dust type (e.g. z.B. wood dust)	
Non-conductive dust	<input type="checkbox"/>
MIE Min. ignition energy [mJ] (min. permissible value for separator: 10 mJ)	
T <sub>5glow</sub> lowest glow temperature at 5 mm dust deposit [°C]	
T <sub>ign</sub> lowest ignition temperature of dust-air mixture [°C]	
T <sub>max</sub> maximal permissible surface temperature for components in dusty atmospheres [°C] (Conditions: T <sub>max</sub> < 2/3 T <sub>ign</sub> <b>and</b> T <sub>max</sub> < T <sub>5glow</sub> - 75K)	
Ambient temperature range (standard: -20 to +40 °C)	

Speed of conveyor [m/s]	
-------------------------	--

Place/date: \_\_\_\_\_

Signature: \_\_\_\_\_

Stamp



Fields highlighted in gray  please fill in or check

Regarding the temperature data, please specify T<sub>5glow</sub> + T<sub>ign</sub> **or** T<sub>max</sub>