



wagner
magnete

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Explosion-proof appliances according to ATEX 2014/34/EU

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 temporarily.
- Wagner Magnete provides their customers with operating instructions who are then responsible its compliance.

The declaration of conformity according to 2014/34/EU 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

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 13463-1. For category 3 D appliances Wagner performs an internal production control with declaration of conformity of the manufacturer according to 2014/34/EU 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 2014/34/EU 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 2014/34/EU 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 _{5glow} lowest glow temperature at 5 mm dust deposit [°C]	_____
T _{ign} lowest ignition temperature of dust-air mixture [°C]	_____
T _{max} maximal permissible surface temperature for components in dusty atmospheres [°C] (Conditions: T _{max} < 2/3 T _{ign} and T _{max} < T _{5glow} – 75K)	_____
Ambient temperature range (standard: 0 to +40 °C)	_____

Speed of conveyor [m/s]	_____
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Place/date: _____

Signature: _____

Stamp



Fields highlighted in gray please fill in or check
 Regarding the temperature data, please specify T_{5glow} + T_{ign} **or** T_{max}