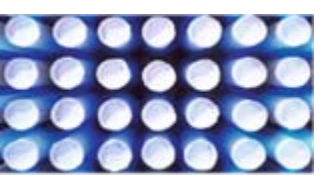


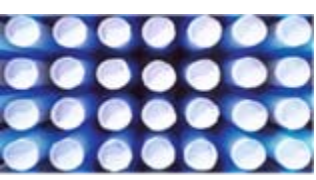
L'applicazione della normativa ATEX, contatto con gli alimenti e composti cancerogeni negli impianti di filtrazione aria

Gianpaolo Giaccone - **BWF**  *Envirotec*



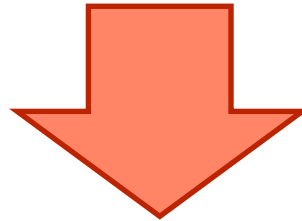
Principali argomenti:

- Il D. Lgs. 81/08
- Titolo XI del Decreto
- Elaborazione del documento
- Attrezzature di lavoro in atmosfere esplosive
- Recepimento Direttiva ATEX
- D.P.R. 23 marzo 1998 n. 126
- Certificazione ATEX

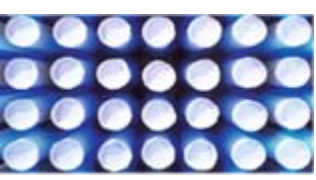


Il D. Lgs. 81/08:

Tutela della Salute e Sicurezza nei
luoghi di lavoro



Titolo XI- protezione da atmosfere esplosive
Recepimento Direttiva Sociale 99/92/CE



TITOLO XI del D. Lgs. 81/08 - PROTEZIONE DA ATMOSFERE ESPLOSIVE

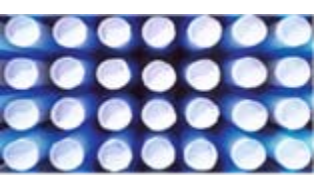
Valutazione del rischio secondo art. 290



Atmosfera esplosiva



Ripartizione in zone secondo quanto contenuto
nell'Allegato XLIX, applicando le prescrizioni minime
contenute nell'Allegato L



TITOLO XI del D. Lgs. 81/08 - PROTEZIONE DA ATMOSFERE ESPLOSIVE

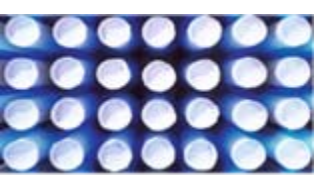
ATTREZZATURE DI LAVORO



**Allegato XLIX: classificazione delle aree (zona 0,
zona 1, zona 2 e zona 20 e zona 21)**



**Allegato L: Requisiti minimi richiesti, riferimento
DPR 23 marzo 1998 n 126 applicazione
Direttiva di prodotto 94/9/CE**



DPR 23 marzo 1998 n 126, recepimento Direttiva di PRODOTTO 94/9/CE

Direttiva che definisce gli obblighi di chi immette i prodotti sul mercato

Definizione del campo di applicazione:

- a) "**apparecchi**" le macchine, i materiali, i dispositivi fissi o mobili, gli organi di comando, la strumentazione e i sistemi di rilevazione e di prevenzione che, da soli o combinati, sono destinati alla produzione, al trasporto, al deposito, alla misurazione, alla regolazione e alla conversione di energia e al trattamento di materiale e che, per via delle potenziali sorgenti di innesco che sono loro proprie, rischiano di provocare una esplosione;
- b) "**sistemi di protezione**", i dispositivi, incorporati negli apparecchi o separati da essi, diversi dai componenti degli apparecchi di cui alla lettera a), la cui funzione e' arrestare le esplosioni o circoscrivere la zona da esse colpita, se immessi separatamente sul mercato come sistemi con funzioni autonome;
- c) "**componenti**" i pezzi essenziali per il funzionamento degli apparecchi e dei sistemi di protezione privi di funzione autonoma.

Da Linee Guida definizione di "**ASSIEME**" di apparecchi che costituiscono un'unità funzionale.



Componenti



Sistemi di protezione

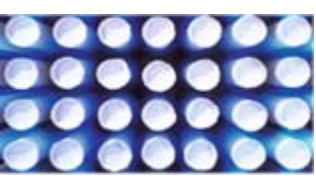


Assieme di apparecchi



Apparecchi

Unità funzionale



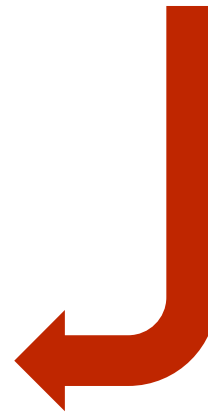
APPARECCHI- maniche filtranti

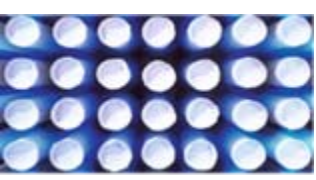
- Rispetto dei RES(requisiti essenziali di sicurezza) secondo quanto contenuto nell'Allegato II
- Presunzione di conformità

A seconda della categoria garantire che anche l'apparecchio componente sia Certificato da Organismo Notificato

UNITA' FUNZIONALE (filtro)

- Rispetto dei RES secondo quanto contenuto nell'Allegato II
- Presunzione di conformità
- Marcatura CE
- Procedure di valutazione della Conformità a seconda dei criteri stabiliti dall'Allegato I (Gruppi e Categorie)
- Ricorso ad Organismo Notificato di Certificazione





Primo caso

Apparecchi conformi che operano
in ATEX:

- rispondenza tecnico-legislativa
- profili di responsabilità chiari



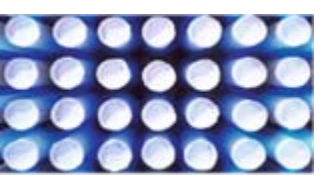
PRODUTTORE DI MANICHE



CONDUTTORE/AZIENDA



IMPIANTISTA



Secondo caso:

Apparecchi non conformi che operano in ATEX:

- non rispondenza tecnico-legislativa
- profili di responsabilità non chiari

?????????



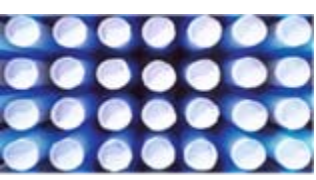
PRODUTTORE DI MANICHE



CONDUTTORE/AZIENDA

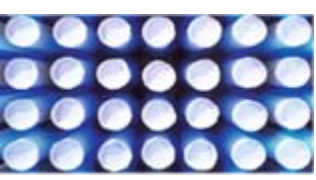


IMPIANTISTA



Le maniche devono quindi disporre di:

- Dichiarazione di Conformità
- Certificazione EXAM- Organismo Notificato esterno- per dispersione elettrostatica del campione per il materiale filtrante "Ex Charge"



Nuovo Regolamento Europeo per materiali a contatto con alimenti

COMMISSION REGULATION (EU) No 10/2011

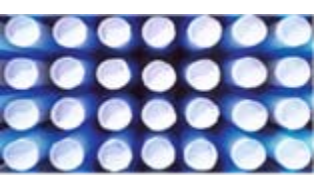
of 14 January 2011

on plastic materials and articles intended to come into contact with food

- Attuale panorama normativo di riferimento:
- FDA- Food and Drug Administration




Prossimo panorama normativo di riferimento:
Regulation (EU) No 10/2011



Nuovo Regolamento Europeo per materiali a contatto con alimenti

Prossimo panorama normativo di riferimento:

Regulation (EU) No 10/2011

 Specifica : Utilizzo dei feltri nel campo della filtrazione- polimeri plastici



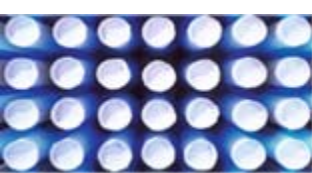
Conformità nel rilascio di determinate sostanze

MIGRATION TEST

BWF Envirotec



**needlona[®]-Filter Media
for the Food Industry**



Declaration of Conformity according to Regulation (EU) No. 1831/2003 Annex IV and Article 11
 on plastic materials and articles intended to come into contact with food

Issued by: BWF Tec GmbH & Co. KG
 Bartenstraße 26
 85362 Otterang
 Germany

Issued on: 1st May 2011

Valid: until end 2012

For the following products: foodsafe® Polyester needle felts "ExCharge® FoodTec" (EFT) with specific weights of 250 to 350 g/m². The product is an intermediate which will be finished by a further manufacturer to filter elements as pistons or legs.

Manufactured by: BWF Tec GmbH & Co. KG
 Bartenstraße 26
 85362 Otterang
 Germany

Confirmation: The Polyester needle felts are in accordance with the following legal requirements:

- Regulation (EC) 1831/2003 (Food contact materials)
- Regulation (EU) 1005/11 (plastic food contact materials)
- Lebensmittel und Futtermittelgesetzgebung - LFGB (German Food and Feed Code)
- German "Nachherzeugungsbescheinigung" (German Food and Commodities Certificate)
- Regulation (EC) 2023/2006 (BSP-Regulation)
- Recommendation of the Federal Institute for Risk Assessment (BfR) - XXXI, Paper and Board for German food contact coating

The conformity has been established by migration testing of the final product Polyester needle felt in accordance with the requirements of the Directives 82/711/EEC and 85/472/EEC.

Limit of substances: Substances used or products of degradation thereof for which restrictions and/or specifications are set out in articles 1 and 2 of Regulation (EU) 1831/11

Substance	Source of information (EU) 1831/11	FCM Substances-No.	MLM resp. SML (g/kg)
ethylene glycol	Annex I tab. 1 and 2	227	10 mg/kg expressed as ethylene glycol
diethylene glycol	Annex I tab. 1 and 2	263	10 mg/kg expressed as diethylene glycol
terephthalic acid	Annex I tab. 1 and 2	785	7.5 mg/kg expressed as terephthalic acid
manganese	Annex 6		0.2 mg/kg expressed as manganese

Conformity with restrictions set out in the list of substances:

Further substances (testing)

Substance	Annex I tab. 1	785	0.26 mg/kg expressed as ethylene glycol
DEH	Annex 6	60	43 mg/kg
Chlorbutan	Annex I tab. 1	60	1 mg/kg expressed as copper
nickel	Annex I tab. 1	60	1 mg/kg expressed as copper

Explanatory note: The specific migration limits according to Regulation (EU) No. 1831/11 are in accordance with the specifications of the Directive 2002/72/EC, resp. the German Lebensmittelgesetzgebung.

The specific limits of migration are respected under the following test conditions (per 6 cm² needle felt per kg food):

Substance	Test conditions	Results	SML / SML (T)
ethylene glycol	10 days, 65 °C, 95 % ethanol	0.66 mg/m ²	0 mg/m ²
diethylene glycol	2.5 days, 42 °C, benzene	+ 0.02 mg/m ²	0 mg/m ²
terephthalic acid	10 days, 60 °C, 95 % ethanol	1.1 mg/m ²	1.1 mg/m ²
manganese	10 days, 70 °C, acetic acid 3 %	0.002 mg/m ²	0.1 mg/m ²
ethylene glycol	10 days, 70 °C, acetic acid 3 %	0.0014 mg/m ²	0.001 mg/m ²
iron	10 days, 70 °C, acetic acid 3 %	0.001 mg/m ²	0.001 mg/m ²
chromium	10 days, 70 °C, acetic acid 3 %	0.001 mg/m ²	0.3 mg/m ²
nickel	10 days, 70 °C, acetic acid 3 %	0.014 mg/m ²	0.3 mg/m ²
perfluorinated carbon acids	10 days, 60 °C, 95 % ethanol	0.0001 mg/m ²	0.001 mg/m ² (accord. to BfR, Report XXXIX)

Conformity with the overall migration limit:

Specifications on the use of the material or article

Types of food with which it is intended to be put into contact

Time and temperature of treatment and storage in contact with the food

Units of food contact surface area to surface used to establish the conformity of the number of articles

Multi-layer barrier

Important remarks:

The overall migration limit is respected under the following test conditions (per 6 cm² needle felt per kg food):

Food simulated	Test conditions	Results	Overall migration limits (ML)
water	10 days, 70 °C	0.8 mg/m ²	10 mg/m ²
acetic acid 3 %	10 days, 70 °C	0.3 mg/m ²	10 mg/m ²
10 % ethanol	10 days, 70 °C	0.3 mg/m ²	10 mg/m ²
10 % ethanol	10 days, 65 °C (T ¹)	1.1 mg/m ²	10 mg/m ²
benzene	3.5 days, 42 °C (T ²)	0.4 mg/m ²	10 mg/m ²

Explanatory note: Due to the diverse fields of application a worst case scenario was chosen for the test conditions.

Dry food in powder form, also with fatty substances on the surface, as, but not only, milk powder, coffee, cocoa powder, spices or cereal flour

The Polyester needle felts are used in the food production as filter media for the removal of dust. The precise time and the maximum temperature to be reached may differ case by case. A prolonged contact time as usual in the storage or packaging of food is not foreseen.

6 cm²/kg according to article 17 para. 2 Regulation (EU) 1831/11

The Polyester needle felts are single-layer felts. No functional barrier is used.

As fresh lubricant removal and aerosol surfactants are used. Processing aids adhering to the product have to be completely removed by washing before the final contact with food; the recommend a constant detergent and rinsing with water.

The BWF Tec GmbH & Co. KG has no impact on further manufacturing and finishing of the Polyester needle felts. The subsequent manufacturer/supplier is responsible in person for testing and declaring the conformity of the finished product.

ppa. Helligsauer
 Thomas Helligsauer
 Managing Director

D. Priller von Wiedenfeld
 Dr. Priller von Wiedenfeld
 Chief Financial Officer

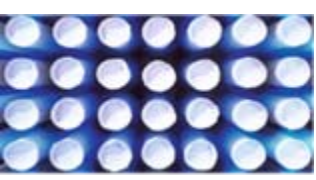
Informationen zum Produkt: BWF Tec GmbH & Co. KG, Bartenstraße 26, 85362 Otterang, Germany. Tel: +49 (0) 89 30 90 10 10. Fax: +49 (0) 89 30 90 10 11. E-Mail: info@bwftec.com. Web: www.bwftec.com

Informationen zum Produkt: BWF Tec GmbH & Co. KG, Bartenstraße 26, 85362 Otterang, Germany. Tel: +49 (0) 89 30 90 10 10. Fax: +49 (0) 89 30 90 10 11. E-Mail: info@bwftec.com. Web: www.bwftec.com

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Nessuna azienda nel settore alimentare utilizza in Italia mezzi filtranti in feltro certificati per il contatto con gli alimenti





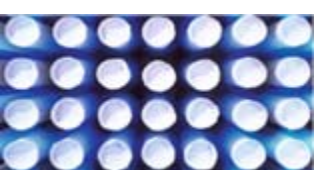
Uso di materiali con potenziali componenti cancerogene



FRA.MA.
c/o Casa del Legno
TIRANO Sondrio

Candele ceramiche





Presenza di componenti classificati come possibili cancerogeni

Hazardous components

EC-No.	Chemical name	Quantity
CAS-No.	Classification	
Index No.	GHS classification	
REACH-No.		
266-046-0	Alumino-silicate wools	100 %
142844-00-6	Carc. Cat. 2 R49	
	Carc. 1B; H350i	
01-2119458050-50-0003		

Labelling

Danger symbols:

T - Toxic

Hazardous components which must be listed on the label

Alumino-silicate wools

R phrases

49 May cause cancer by inhalation.

S phrases

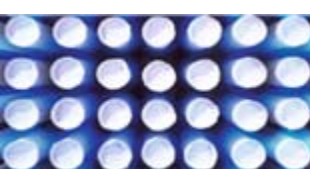
38 In case of insufficient ventilation, wear suitable respiratory equipment.

24/25 Avoid contact with skin and eyes.

36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

Special labelling for certain preparations

Restricted to professional users.



Abbreviation: RCF / ASW

Modification of the substance or preparation

Alstra / Alstra Mat

REACH Registration Number: 01-2119458050-50-0003

Use of the substance/preparation

Use of the products is restricted to "professional users" for application as thermal insulation, heat shields, heat containment, gaskets and expansion joints at temperatures up to 1400°C in industrial furnaces, ovens, kilns, boilers and other process equipment and in the aerospace and automotive industries. Products are not intended for direct sale to the general public.

- Primary Use: Manufacture of fibre (refers to the initial production of the fibre and is therefore not relevant to the downstream user, secondary and tertiary use are relevant to users)
- Secondary Use: Conversion into wet and dry mixtures and articles (refer to section 5)
- Tertiary Use: Installation, removal (industrial and professional) / Maintenance and service life (industrial and professional) (refer to section 5)

Uses Advised Against: Spraying of the product

Further information

Alstra / Alstra Mat products contain Refractory Ceramic Fibres (RCF) / Alumino-silicate wools (ASW).
 Index Number 650-017-00-8 of Annex VI
 CAS number: 142844-00-6
 CAS Name : Refractories, fibres, aluminosilicate

2. Hazards identification

Classification

R-phrases:
 May cause cancer by inhalation.

GHS:
 Hazard categories:
 Carcinogenicity: Carc. 1B
 Hazard Statements:
 May cause cancer by inhalation.

Explication of special hazards for human health and environment

The International Agency for Research on Cancer (IARC) reaffirmed that group 2B ("possibly carcinogenic to humans") remains the appropriate classification for RCF/ASW.

In accordance with 31st adaptation to Technical Progress of Directive 67/548/ECC as published 15th January 2009 the classification as "irritant" has been removed for all types of man made vitreous fibres (MMVFs).

3. Composition information on ingredients

Chemical characterization (substance)

Composition information on ingredients:

Silicon dioxide 45-50%
 Aluminium oxide 25-55%
 Zirconium oxide <10%

None of the components are radioactive under the terms of European Directive Euratom 96/29

Hazardous components

EC-No.	Chemical name	Quantity
CAS-No.	Classification	
Index No.	GHS classification	
REACH-No.		
365-046-0	Alumino-silicate wools	100 %
142844-00-6	Carc. Cat. 2 (H40)	
	Carc. 1B, H350	
01-2119458050-50-0003		

Full text of R- and H-phrases: see section 15.

Further information

Alstra / Alstra Mat products are available in a variety of forms: bulks, blankets, papers, felts, boards, shapes, modules, ornaments, textiles (braids, ropes, and cloth), coatings, mixes, mastics. (Reference: BS EN 1094-1:1997).

4. First aid measures

After inhalation

If nose or throat becomes irritated move to a dust free area, drink water and blow nose.
 If symptoms persist, seek medical advice.

After contact with skin

In case of skin irritation rinse affected areas with water and wash gently. Do not rub or scratch exposed skin.

After contact with eyes

In case of eye contact flush abundantly with water; have eye bath available. Do not rub eyes.

5. Fire-fighting measures

Suitable extinguishing media

Use extinguishing agent suitable for surrounding combustible materials.

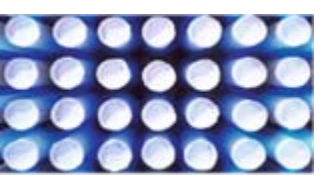
Additional information

Non combustible products. Packaging and surrounding materials may be combustible. Class of reaction to fire is zero.

6. Accidental release measures

Personal precautions

Where abnormally high dust concentrations occur, provide workers with appropriate protective equipment as detailed in section 5.
 Restrict access to the area to a minimum number of workers required.
 Restore the situation to normal as quickly as possible.



Presenza di componenti classificati come possibili cancerogeni

- Gestione legislativa secondo D.Lgs. 81/08
- Personale formato e informato (handling/stoccaggio)
- Smaltimento adeguato secondo normativa (tipo amianto)