



■ Stand: 03/2007

■ Best.-Nr. 534e

---

## **INDUSTRY-WIDE AGREEMENT OF LOW-DUST SPRAY POWDERS – LIST OF APPROPRIATE PRODUCTS**

### **Industry-wide Agreement**

The suppliers of spray powders, manufacturers of sheetfed offset printing presses and powder devices, the Bundesverband Druck und Medien e. V. (German Printing and Media Industries Federation), the Vereinte Dienstleistungsgewerkschaft ver.di e. V. (Union for printers and people in the graphics industry in Germany) the FOGRA Forschungsgesellschaft Druck e. V. (Graphic Technology Research Association) and the Berufsgenossenschaft Druck und Papierverarbeitung (BG, Institution for statutory accident insurance and prevention in the printing and paper processing industry) have agreed to work together towards the joint objective of reducing dust exposure at sheetfed offset printing workplaces.

As a consequence, suppliers of spray powders will mainly develop and supply powders that comply with the criteria described below. Pushing the use of such powders in the offset printing industry will be a common goal.

### **Criteria for classification of spray powders**

The industry-wide agreement seeks to establish powder descriptions which are objective and reproducible and allow comparisons. For this purpose, print spray powders have been classified.

In order to classify spray powders, the measuring method for the determination of the grain size distribution and the median (mean value of grain size distribution) has to be defined.

In future, spray powders will be classified as "fine", "medium" or "coarse". The following limit values will apply:

Class	Median range MW [ $\mu\text{m}$ ]
fine	$MW \leq 20 \mu\text{m}$
medium	$20 \mu\text{m} < MW \leq 40 \mu\text{m}$
coarse	$40 \mu\text{m} < MW$

The maximum admissible proportions of grain sizes below  $10 \mu\text{m}$  per class are defined as follows:

Class	Admissible proportions $< 10 \mu\text{m}$ [Vol.-%]
fine	10,0 +0,5
medium	7,5 +0,5
coarse	5,0 +0,5

It is also required that at least 80 (-5) Vol.-% of the total number of particles of the powder are within the grain size range of "0,5 times the median" up to "1,5 times the median" .

Spray powders are not allowed to contain hazardous substances or other substances with non-acceptable health risks.

### Basic principle

The manufacturer / supplier of spray powders supplies evidence to the Berufsgenossenschaft Druck und Papierverarbeitung that the above-mentioned criteria have been applied. For this purpose, he will have his product(s) analysed by an independent institute (for example FSA GmbH, Dynamostr. 7 – 11, D-68165 Mannheim/Germany), applying the grain size distribution method described above. If these criteria have been complied with, the product will included in the list (see annex).

Compliance with the criteria will have to be substantiated to the BG at yearly intervals (in accordance with the reprint date of the list) by submitting results of a renewed analysis.

The BG reserves the right to take samples from original packing units in printing shops and to verify them for adherence to the criteria.

**Annotation:**

Product specifications supplied by manufacturers / suppliers

Suppliers of print spray powders provide specification of the median and the proportion by volume of powder particles below 10  $\mu\text{m}$  from the total sample volume on the packing unit and in their product information. Product specification will also inform about the recommended use of powders for certain paper qualities. Basically, the powders recommended should have grain sizes as coarse as possible.

For products accepted in the list of low-dust powders, the suppliers are entitled to provide the following information in the product specification and on the packaging unit:

*"This product complies with the requirements for low-dust print spray powders and has been included in the "List of Recommended Low-Dust Spray Powders" of the Berufsgenossenschaft Druck und Papierverarbeitung".*

For further information please contact

Berufsgenossenschaft Druck und Papierverarbeitung  
Referat Arbeitsstoffe  
Rheinstrasse 6 – 8  
D – 65185 Wiesbaden  
Germany

Mail: [chemie@bgdp.de](mailto:chemie@bgdp.de) / Homepage: [www.bgdp.de](http://www.bgdp.de)

## Annex

### Explanatory notes for the List of appropriate products

The Berufsgenossenschaft Druck und Papierverarbeitung publishes a list of recommended low-dust products for better health protection. It names the products for which verification of compliance with the criteria mentioned has been acknowledged and will be updated in regular intervals. The list includes the products from various suppliers which comply with the criteria stipulated. It is not exhaustive with regard to the manufacturers / suppliers of printing spraying powders.

- Column "Product Class" **specifies classification of the product into "fine", "medium" or "coarse"**.
- Column "Product Name" **specifies the exact trade name of the spray powder.**
- Column "Material" **specifies the basic raw material from which the printing spraying powder is made, for example "starch" (maize or potato starch) or "calcium carbonate"**.
- Column "Median" **specifies the exact median (mean value of grain size distribution).**
- Column "Proportion < 10  $\mu\text{m}$  [Vol.-%]" **specifies the percentage by volume of the total number of particles of the powder with grain sizes below 10  $\mu\text{m}$ .**
- Column "Machines" **describes machines and equipment on which the product can be used. Manufacturer names in this column indicate that the product is compatible with all machines and equipment produced by this manufacturer as well as with the materials used. The acronyms signify:**

HDM:	Heidelberger Druckmaschinen AG
KBA:	Koenig & Bauer AG Planeta – Bogenoffsetmaschinen
MAN:	MAN Roland Druckmaschinen AG
GRAF:	Grafix GmbH – Zerstäubungstechnik
WEKO :	Weitmann & Konrad GmbH & Co. KG – Bestäubungstechnik
H-K-M-W-G:	stands for all manufacturers listed above

## List of appropriate Products

### Hersteller /Lieferant:

#### Anchor

Zwaluwbeekstraat 14  
B – 9150 Kruibeke  
Belgium  
Fon: +32 (0) 3 253 02 08  
Fax: +32 (0) 3 253 09 37  
E-Mail: info@anchor.be  
www.anchor.be

Product Class	Product Name	Material	Median [ $\mu\text{m}$ ]	Proportion < 10 $\mu\text{m}$ [Vol%]	Machines
Medium	Ecospray Powder Medium	starch	39,0	1,6	H-K-M-W-G
coarse	Ecospray Powder coarse	starch	42,6	1,3	H-K-M-W-G

### Manufacturer /Supplier:

#### DAY International GmbH

Täleswiesenstr. 7/1  
D - 72770 Reutlingen  
Germany  
Fon: +49 (0) 7121 5857-0  
Fax: +49 (0) 7121 5857-70  
E-Mail: salesuk@varn.com  
www.day-intl.com

Product Class	Product Name	Material	Median [ $\mu\text{m}$ ]	Proportion < 10 $\mu\text{m}$ [Vol%]	Machines
fine	Varn CC 20	starch	18,5	10,0	H-K-M-W-G
medium	Varn CC 30	starch	24,6	5,8	H-K-M-W-G

### Manufacturer upplier:

#### DS Druckerei Service GmbH

Siemensstr. 46  
D - 72766 Reutlingen  
Germany  
Fon: +49 (0) 7121 4815-0  
Fax: +49 (0) 7121 48 1590  
E-Mail: reutlingenoffice@fujihunt.com  
www.dsgroup.de

Product Class	Product Name	Material	Median [ $\mu\text{m}$ ]	Proportion < 10 $\mu\text{m}$ [Vol%]	Machines
medium	Safe Spray SP 7022 Ecospray	starch	39,0	1,6	H-K-M-W-G
coarse	Safe Spray SP 7033 Ecospray	starch	42,6	1,3	H-K-M-W-G

**Hersteller /Lieferant:****Fuji Hunt Pressroom Chemicals**

Zwaluwbeekstraat 14

B – 9150 Kruibekke

Belgium

Fon: +32 (0) 3 253 02 08

Fax: +32 (0) 3 253 09 37

E-Mail: [press.marketing@fujihunt.com](mailto:press.marketing@fujihunt.com)[www.fujihunt.com/press](http://www.fujihunt.com/press)

Product Class	Product Name	Material	Median [ $\mu\text{m}$ ]	Proportion < 10 $\mu\text{m}$ [Vol%]	Machines
medium	Safe Spray SP 7022 Ecospray	starch	39,0	1,6	H-K-M-W-G
coarse	Safe Spray SP 7033 Ecospray	starch	42,6	1,3	H-K-M-W-G

**Manufacturer /Supplier:****KSL Staubtechnik GmbH**

Westendstr. 11

D - 89415 Lauingen

Germany

Fon: +49 (0) 9072 9500-0

Fax: +49 (0) 9072 9500-50

E-Mail: [info@ksl-staubtechnik.de](mailto:info@ksl-staubtechnik.de)[www.ksl-staubtechnik.de](http://www.ksl-staubtechnik.de)

Product Class	Product Name	Material	Median [ $\mu\text{m}$ ]	Proportion < 10 $\mu\text{m}$ [Vol%]	Machines
fine	K4/15	Calcium carbonate	19,4	7,0	H-K-M-W-G
fine	K4 plus/15	Calcium carbonate	18,9	5,9	H-K-M-W-G
fine	S5/16	starch	16,8	5,9	H-K-M-W-G
fine	S5/20	starch	19,5	4,6	H-K-M-W-G
fine	S5WL/16	starch	17,4	6,0	H-K-M-W-G
fine	S5WL/20	starch	19,5	5,1	H-K-M-W-G
medium	K4/20	Calcium carbonate	21,9	4,7	H-K-M-W-G
medium	K4/30	Calcium carbonate	30,6	3,7	H-K-M-W-G
medium	K4 plus/20	Calcium carbonate	22,0	4,5	H-K-M-W-G
medium	K4 plus/30	Calcium carbonate	32,0	3,4	H-K-M-W-G
medium	S5/22	starch	22,6	2,6	H-K-M-W-G
medium	S5/30	starch	38,1	1,3	H-K-M-W-G
medium	S5 WL/22	starch	22,8	3,0	H-K-M-W-G
medium	S5 WL/30	starch	38,3	1,4	H-K-M-W-G
coarse	K4/45	Calcium carbonate	42,5	2,4	H-K-M-W-G
coarse	K4/60	Calcium carbonate	64,5	0,7	H-K-M-W-G
coarse	K4/80	Calcium carbonate	82,1	1,0	H-K-M-W-G
coarse	K4 plus/45	Calcium carbonate	42,4	2,9	H-K-M-W-G
coarse	S5/45	starch	61,4	0,8	H-K-M-W-G
coarse	S5 WL/45	starch	62,7	0,7	H-K-M-W-G

**Manufacturer /Supplier:****RUSSEL-WEBB LIMITED**

Fountain Drive  
Herts SG13 7UB  
United Kingdom

Fon: +44 (0) 1992 551774

Fax: +44 (0) 1992 554178

E-Mail: info@russel-webb.com

www.russel-web.com

Product-Class	Product Name	Material	Median [ $\mu\text{m}$ ]	Proportion < 10 $\mu\text{m}$ [Vol%]	Machines
fine	S 88-15	starch	17,4	8,8	H-K-M-W-G
medium	S 88-20	starch	22,0	3,0	H-K-M-W-G
medium	S 88-20 R	starch	22,3	3,6	H-K-M-W-G
medium	S 88-35	starch	39,3	1,9	H-K-M-W-G
medium	S 88-35 R	starch	39,0	1,6	H-K-M-W-G
coarse	S88-50	starch	42,1	3,1	H-K-M-W-G
coarse	S88-50 R	starch	42,6	1,3	H-K-M-W-G

**Hersteller /Lieferant:****Solco N.V.**

Zwaluwbeekstraat 14  
B – 9150 Kruibekke  
Belgium

Fon: +32 (0) 3 253 02 08

Fax: +32 (0) 3 253 09 37

E-Mail: press.marketing@fujihunt.com

www.solco.be

Product Class	Product Name	Material	Median [ $\mu\text{m}$ ]	Proportion < 10 $\mu\text{m}$ [Vol%]	Machines
medium	ASOP C 40 Ecospray	starch	39,0	1,6	H-K-M-W-G
coarse	ASOP C 60 Ecospray	starch	42,6	1,3	H-K-M-W-G

**Manufacturer /Supplier:**  
**Bernd Schwegmann GmbH & Co. KG**  
 Wernher-von-Braun-Str. 14  
 D - 53501 Grafschaft-Gelsdorf  
 Germany  
 Fon: +49 (0) 2225 9226-0  
 E-Mail: info@SchwegmannNet.de  
 www.SchwegmannNet.de

<b>Product Class</b>	<b>Product Name</b>	<b>Material</b>	<b>Median [<math>\mu\text{m}</math>]</b>	<b>Proportion &lt; 10 <math>\mu\text{m}</math> [Vol%]</b>	<b>Machines</b>
fine	Wirbelwind 8161	starch	19,4	9,2	H-K-M-W-G
medium	Wirbelwind 8162	starch	21,2	4,2	H-K-M-W-G
coarse	Wirbelwind 8163	starch	45,8	1,5	H-K-M-W-G