

# PRODUCT INFORMATION SHEET

## Grinding aid: HMPA 100

Order number: 367221-9

### Scope of use

In X-ray fluorescence analysis, pulverizing of the samples, followed by pelletizing to obtain stable tablets, is a well-established routine procedure of sample preparation. The precision of XRF-analysis is very much influenced by the particle size of the ground sample and the homogeneity and stability of the tablet.

To improve the grinding process and as binder in the tablet additives are added to the sample. In the past these additives were very often powders based on wax and cellulose.

Especially for this application HERZOG has developed the product HMPA 100. These tablets lead to significant improvements in the following properties:

- ☐ Easy to handle automatic dosing systems
- ☐ Constant weight and easy to store
- ☐ Robust surface, minimum abrasion in dosing reservoirs
- ☐ Short grinding time and high fineness, ideal particle size distribution and homogeneity
- ☐ Minimum backing in the grinding vessel and therefore easy to clean
- ☐ Low heating up of the grinding vessel
- ☐ Higher sample throughput
- ☐ Stable tablets and therefore no contamination in the XRF-instruments
- ☐ Environment friendly and harmless concerning health
- ☐ Available from stock

These improved properties are confirmed in own tests and in reports from the steel-, cement- and glass-industry as well as from the mining industry.

### Recommended sample types

The grinding aid can be used for various sample types. The amount of binder used depends on the application and analytical requirements.

The HMPA 100 is suitable for medium too difficult to press materials and provides a certain sealing against moisture uptake.

Cement	Limestone
Raw meal	Hydrates
Iron ore	Slags
Bauxite	Refractories
Gold ore	Clays
Catalyst	Soils
Ceramics	Matte
Clinker	Fly ash



#### Agence Nord:

ZA Object'Ifs Sud - Lot A3  
6 Allée Emilie du Châtelet  
14123 Ifs  
tél : 02.31.34.50.74  
fax : 02.31.34.55.17

#### Agence Sud:

Bât Le Venango, 392 Rue Jean Dausset  
AGROPARC - BP11575  
84916 Avignon Cédex 9  
tél : 04.90.27.17.95 fax : 04.90.27.17.52

#### Agence Est:

Parc Club des Tanneries  
2 Rue de la Faisanderie  
67380 Lingolsheim  
tél : 03.88.04.01.81  
fax : 03.68.93.01.52



[www.deltalabo.fr](http://www.deltalabo.fr)  
[info@deltalabo.fr](mailto:info@deltalabo.fr)

## Trace elements

<i>Analysis 03/2021</i>			Detection limit	Method
Moisture	%	96,8	0,1	DIN EN 12880:2001
Aluminium	mg/kg	< 100	100	DIN ISO 22036:2009-06;L
Barium	mg/kg	< 1	1	DIN ISO 17294-2:2017-01;
Calcium	mg/kg	< 100	100	DIN ISO 22036:2009-06;L
Chrome (total)	mg/kg	< 1	1	DIN ISO 22036:2009-06;L
Potassium	mg/kg	<10	10	DIN ISO 17294-2:2017-01;
Iron	mg/kg	< 100	100	DIN ISO 22036:2009-06;L
Copper	mg/kg	< 1	1	DIN ISO 17294-2:2017-01;
Manganese	mg/kg	< 1	1	DIN ISO 17294-2:2017-01;
Nickel	mg/kg	< 1	1	DIN ISO 17294-2:2017-01;
Molybdenum	mg/kg	< 1	1	DIN ISO 17294-2:2017-01;
Sulfur (total)	mg/kg	< 100	100	DIN ISO 22036:2009-06;L
Silicon	mg/kg	< 100	100	DIN ISO 22036:2009-06;L
Strontium	mg/kg	< 1	1	DIN ISO 22036:2009-06;L
Titanium	mg/kg	< 1	1	DIN ISO 22036:2009-06;L
Vanadium	mg/kg	< 1	1	DIN ISO 17294-2:2017-01;

<b>Composition</b>	Microcrystalline cellulose Resin	CAS 9004-34-6 CAS 8050-09-7
<b>Export reference</b>	HS Code:	39129090* *01/2023
<b>Physical properties</b>	Tablet weight: Tablet height: Tablet thickness:	277 mg +/-30 mg 9 mm+/- 0.1mm 5 mm +/- 0.1mm
<b>Reach declaration</b>		H317
<b>Storage</b>		Dry and no direct light

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