HERZOG
Your partner for automatic sample preparation

PRODUCT INFORMATION SHEET

Grinding aid: HMPA 20

Order number: 222222-2

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 20. 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 20 is suitable for easy too medium to press materials.

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Cement	Limestone
Raw meal	Hydrates
Iron ore	Slags
Bauxite	Refractories
Gold ore	Clinker
Catalyst	Ceramics



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

DELTA LABO

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

www.deltalabo.fr
info@deltalabo.fr

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Trace elements

Analysis 03/2021			Detection limit	Method
Remaining moisture	%	96,2	0,1	DIN EN 12880:2001
Alumnium	mg/kg	< 100	100	DIN ISO 22036:2009-06;L
Barium	mg/kg	< 1	1	DIN ISO 17294-2:2017-01;
Lead	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 17294-2:2017-01;
Cobalt	mg/kg	< 1	1	DIN ISO 17294-2:2017-01;
Iron	mg/kg	< 100	100	DIN ISO 22036:2009-06;L
Potasium	mg/kg	< 10	10	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;
Molybdanium	mg/kg	< 1	1	DIN ISO 17294-2:2017-01;
Nickel	mg/kg	< 1	1	DIN ISO 17294-2:2017-01;
Phosphor (total)	mg/kg	< 100	100	DIN ISO 22036:2009-06;L
Sulfur (total)	mg/kg	< 100	100	DIN ISO 22036:2009-06;L

		Ratio	
Composition	Microcrystalline cellulose	100%	CAS 9004-34-6
Export reference		HS Code:	39129080*
			*12/2021
Physical properties		Tablet weight:	205 mg +/- 5 mg
		Tablet height:	8.9 mm +/-0.1 mm
		Tablet thickness:	4.0 mm +/-0.1 mm
Reach declaration	Non hazardous substances		
Storage	Dry and no direct light		

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