



Radarweg 29
1043NX Amsterdam
The Netherlands

ZIRCON FLOUR

Specification

Manufacturer: Volnogorsk Mining and Processing Plant

Origin: Ukraine

Other name: zirconium silicate, powdered zircon

CAS number: 14940-68-2

HS code: 2615100000

End application: raw material for steelmaking, refractories, glassmaking, traditional ceramics, zirconia manufacture, zirconium manufacture, glass additive and foundry uses

Chemical analysis:

Name	Content, %
ZrO ₂ +HfO ₂	min. 65
TiO ₂	max. 0.4
Al ₂ O ₃	max. 2.0
Fe ₂ O ₃	max. 0.1
P ₂ O ₅	max. 0.12
SiO ₂	max. 32
Th+U	max. 320 ppm
Aef, kBq/kg	max. 4
Moisture	max. 0.5

Minerals:

Name	Content, %
Zircon	98-99
Rutile / Ilmenite	0.1-0.3
Monazite	0.0-0.2
Kyanite	0.5-2.5
Quartz	0.05-0.2

Physical description and properties:

Terms of storage	unlimited	
Appearance	light grey odorless powder	
Melting point	2200 °C	
Specific gravity	4500 - 4650 kg/m ³	
Particle size	200 mesh	325 mesh
	97% less than 63µm	98% less than 45µm
Flammability	nonflammable	
Solubility in water	insoluble	

FLOUR 200 MESH	
Sieve aperture, µm	Cumulative retained, %
+63	max 3
+40	max 10
+20	max 25
+5	max 60

FLOUR 325 MESH	
Sieve aperture, µm	Cumulative retained, %
+45	max 2
+30	max 6
+20	max 10
+5	max 40

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