



Cesium Tetrafluoro Aluminate Complex

60:40

industrial

Product number :	426073
CAS-No. :	[138577-01-2]
Appearance :	white amorphous powder
Composition :	approx. $\text{Cs}_3\text{Al}_2\text{F}_9$
Formula weight :	approx. 624 g/mol, based on composition
Melting point range :	420 – 480 °C
Bulk density :	0.8 – 1.2 kg/l
pH-Value :	6 – 8 (10 % aqueous suspension)

Chemical analysis

Cs		57 - 66 %
Al		6 - 11 %
F		25 - 35 %
Na	max.	1000 ppm
K	max.	1000 ppm
Rb	max.	1000 ppm
Ca	max.	500 ppm
lower limit melting range	min..	410 °C
upper limit melting range	max.	500 °C
particle size x90	max.	20 µm
weight loss at 300 °C	max.	2 %

Deliveries are accompanied by a lot specific certificate of analysis.
If any of these values is critical to your application, please let us know.

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Applications	Cesium aluminum fluoride is used as a flux for brazing aluminum alloys rich in magnesium and as a heterogeneous catalyst in organic reactions.
Safety and handling	If stored properly, under exclusion of moisture and chemicals in tightly closed containers at ambient temperatures, shelf life of the material will exceed one year.
Packaging	Mauser containers or PE-cans. Alternative packing on request. Smaller units available at surcharge.
Transport classification	Please refer to the safety datasheet of this product.
Cesium product range	acetate aluminium fluoride bicarbonate bromide carbonate chloride fluoride hydrogen carbonate hydroxide, aqueous solution or monohydrate iodide metal nitrate sulfate <i>available in various grades, other products on request</i>