

## CERTIFICATE OF ANALYSIS

according to EN 10 204 - 3.1

Material:	Zirconium Acetate Solution 30%		
Customer:	BASF Corporation, USA		
Quantity:	<del>15850 kg</del> 5800 kg	Date of delivery:	<del>20170419</del> 04-Jan-2018
P.O. No.:	4941270636	Reference No.:	<del>1600001569</del> 1600002515 Rel 56
G-PS No.:	0158 Rev. 17	Part No.:	500057231

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Lot-No.:	BZRAC09/17	Specification TIAG: K-577-SE, R0
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	Results		Limits of specification
Na	< 0,01	max.	0,03 %
Cl	< 0,01	max.	0,01 %
K	< 0,01	max.	0,01 %
Cr	< 1	max.	10 ppm
Nb	< 2	max.	100 ppm
Cd	< 1	max.	10 ppm
Yb	< 1	max.	100 ppm
Lu	< 1	max.	100 ppm
Re	< 1	max.	100 ppm
Hg	< 1	max.	10 ppm
Pb	< 1	max.	10 ppm
SiO <sub>2</sub>	< 0,01	max.	0,07 %
TiO <sub>2</sub>	< 0,01	max.	0,15 %
Fe <sub>2</sub> O <sub>3</sub>	< 0,01	max.	0,01 %
Y <sub>2</sub> O <sub>3</sub>	< 1	max.	200 ppm
HfO <sub>2</sub>	0,6	max.	0,9 %
<b>physical data</b>			
Specific density	1,46		1,41 – 1,49 g/cm <sup>3</sup>
Solids (ZrO <sub>2</sub> + HfO <sub>2</sub> )	30,2		29,5 – 30,5 %
pH-value	3,3		3,0 – 3,5

The above mentioned product was analyzed and meets the specification

