

Refining & Chemicals

Total Research & Technology Feluy
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Letter: ARP/20L00371

Feluy, 25/03/2020

To whom it may concern

POLYPROPYLENE Aceso® PPM H250 S01

ELEMENTAL IMPURITIES FOLLOWING ICH GUIDELINE Q3D

Please find here under analysis results performed on the here above mentioned product(s) or on a representative grade of it, concerning heavy metal content according to GUIDELINE FOR ELEMENTAL IMPURITIES Q3D(R1) EMA/CHMP/ICH353369/2013- Current Step 5 version dated 28 March 2019 Table 5.1.

Elements to be considered in the Risk Assessment according to ICH Q3D 2019

Element	Class	Method	Unit	Limit of quantification	Value
Cd	1	ICP	ppm	0.025	<LQ
Pb	1	ICP	ppm	0.05	<LQ
As	1	ICP	ppm	0.025	<LQ
Hg	1	ICP	ppm	0.025	<LQ
Co	2A	ICP	ppm	0.05	<LQ
V	2A	ICP	ppm	0.05	<LQ
Ni	2A	ICP	ppm	0.025	<LQ
Tl	2B	ICP	ppm	0.1	<LQ
Au	2B	ICP	ppm	NA*	NA*
Pd	2B	ICP	ppm	0.1	<LQ
Ir	2B	ICP	ppm	0.25	<LQ
Os	2B	ICP	ppm	0.25	<LQ
Rh	2B	ICP	ppm	0.25	<LQ
Ru	2B	ICP	ppm	0.25	<LQ
Se	2B	ICP	ppm	1.0	<LQ
Ag	2B	ICP	ppm	1.0	<LQ
Pt	2B	ICP	ppm	1	<LQ
Li	3	ICP	ppm	0.025	<LQ
Sb	3	ICP	ppm	0.1	<LQ
Ba	3	ICP	ppm	0.1	<LQ
Mo	3	ICP	ppm	0.1	<LQ
Cu	3	ICP	ppm	0.1	<LQ
Sn	3	ICP	ppm	0.1	<LQ
Cr	3	ICP	ppm	0.05	<LQ

NA*: not analyzed.

Issued by an electronic system

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We inform you that the metals not analyzed are not intentionally added to the here above mentioned product(s) during the manufacturing process. However, we cannot guarantee that there is no trace amount of some of these metals, as impurity or otherwise, in the here above mentioned product(s).

Our certificate does not cover:

- any modification of the warranted product by any addition of any other product to it,
- any prejudicial modification of the warranted product resulting from a processing of the product,
- an inadequate use and/or storage of the material and of the finished articles.

The present certificate is valid until **January 31st, 2023**. It can then be renewed upon request.

We are at your disposal for any further information you may need and remain,

Yours faithfully,
Total Research & Technology Feluy

B. KLUYSKENS
Regulatory Affairs

F. RADERMACHER
Regulatory Affairs, Manager