

1/3

To whom it may concern

Statement regarding RoHS compliance

The RoHS directives, i.e. the RoHS 3 Directive (EU) 2015/863 amending Annex II of the RoHS 2 Directive 2011/65/EU and the RoHS 2 directive implement environmental legislation which seeks to reduce the quantity of hazardous material in electrical and electronic products.

The EU Government has added to the RoHS 2 directive four additional substances, i.e. four phthalates via the RoHS 3 directive (2015/863), these additional four substances shall be applied by 22 July 2019 except where exemptions permit.

The Oerlikon Business unit Balzers Industrial Solutions and the Business Line Thin Film Automotive and their affiliated legal entities, together hereafter called Oerlikon Balzers have established a comprehensive compliance process and program to ensure ongoing compliance with the requirements of the RoHS directives.


Oerlikon Balzers complies with the RoHS 2 directive and with the RoHS 3 directive. All Oerlikon Balzers coatings listed in Annex A and all equipment do not exceed the allowable limits for the following restricted substances:

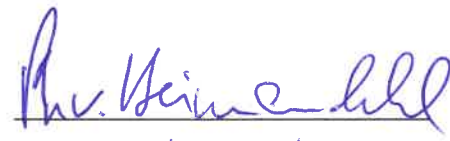
| RESTRICTED SUBSTANCE | MAXIMUM THRESHOLD LIMIT |
|---------------------------------------|--------------------------------|
| Cadmium (Cd) | 100 ppm (0.01 weight %) |
| Mercury (Hg) | 1000 ppm (0.1 weight %) |
| Hexavalent Chromium (Cr6+) | 1000 ppm (0.1 weight %) |
| Lead (Pb) | 1000 ppm (0.1 weight %) |
| Polybrominated biphenyls (PBB) | 1000 ppm (0.1 weight %) |
| Polybrominated diphenyl ethers (PBDE) | 1000 ppm (0.1 weight %) |
| Bis(2-Ethylhexyl) phthalate (DEHP) | 1000 ppm (0.1 weight %) |
| Benzyl butyl phthalate (BBP) | 1000 ppm (0.1 weight %) |
| Dibutyl phthalate (DBP) | 1000 ppm (0.1 weight %) |
| Diisobutyl phthalate (DIBP) | 1000 ppm (0.1 weight %) |

2/3

Oerlikon Balzers coatings and equipment are also "halogen-free". Oerlikon Balzers defines a product as halogen-free when the sum of total Chlorine and Bromine content in an organic homogeneous material is less than 900 parts per million (ppm).

Balzers, 22 November 2018


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Disclaimer: The above information is complete, true and correct to the best of our knowledge. However, neither Oerlikon Balzers nor one of our subsidiaries and affiliates will accept any liability for direct or indirect damages or subsequent damages, arising from or related to the usage of the above information.

3/3

Annex A

BALINIT A
BALINIT ALCRONA PRO
BALINIT ALDURA
BALINIT ALNOVA
BALINIT ALTENSA
BALINIT B
BALINIT C
BALINIT C STAR
BALINIT CNI
BALINIT CROMA
BALINIT CROMA PLUS
BALINIT CROVEGA
BALINIT D
BALINIT DIAMOND MICRO
BALINIT DIAMOND NANO
BALINIT DLC
BALINIT DLC STAR
BALINIT FORMERA
BALINIT FORMERA PLUS
BALINIT FUTURA
BALINIT FUTURA GOLD
BALINIT FUTURA NANO
BALINIT FUTURA NANO GOLD
BALINIT G
BALINIT HARD CARBON
BALINIT HELICA
BALINIT LATUMA
BALINIT LUMENA
BALINIT MICRAN
BALINIT PERTURA
BALINIT TRITON
BALINIT X.CEED
BALINIT X.CELL

BALIQ INSERT ALTINOS
BALIQ MICRO ALCRONOS
BALIQ MICRO TISINOS
BALIQ REAM ALCRONOS
BALIQ TAP ALCRONOS