

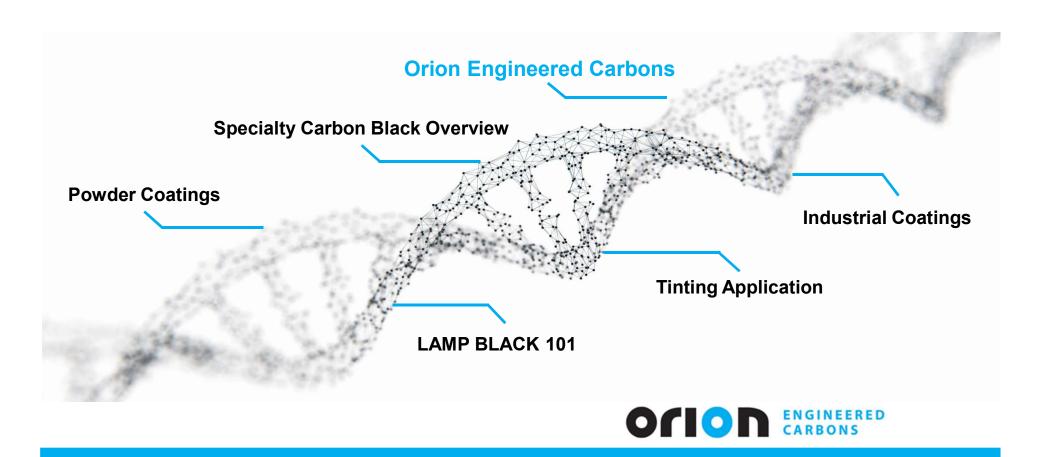


# WEKNOWBLACK.

**Specialty Carbon Blacks for different coating applications** 

Silvia Witt

**Technical Market Manager Coating Systems** 



### History



2011



2007

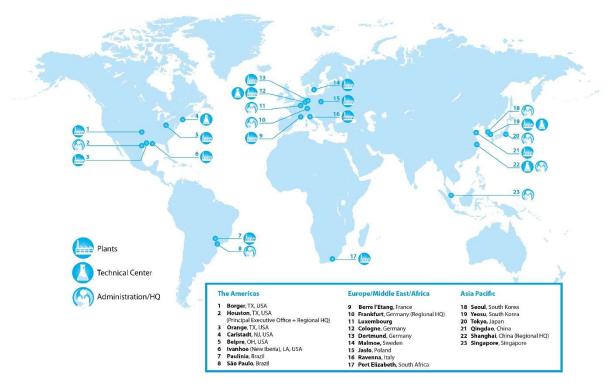


2002

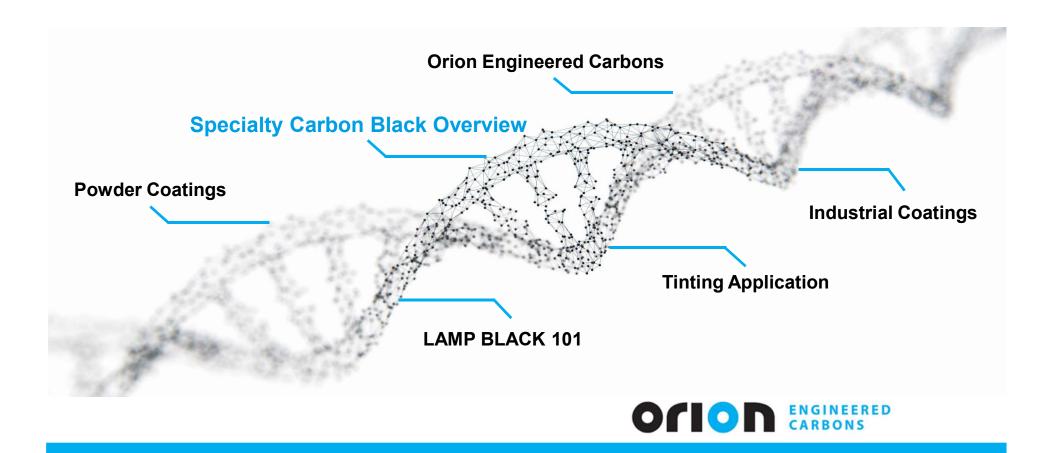
**degussa.** creating essentials



### OEC global production and applied technology network







### **Specialty Carbon Black**

AROSPERSE®

**COLOUR BLACK** 

HIBLACK®

LAMP BLACK

**NEROX®** 

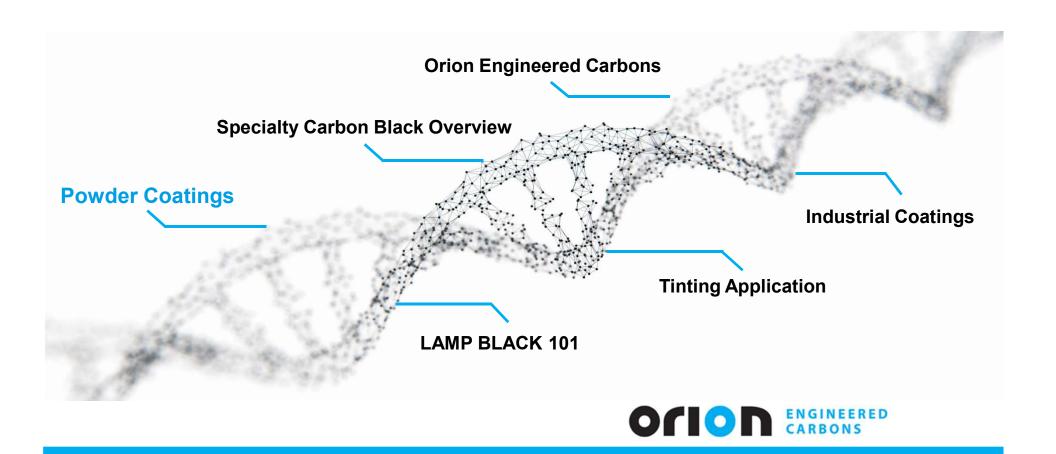
PANTHER®

PRINTEX®

SPECIAL BLACK

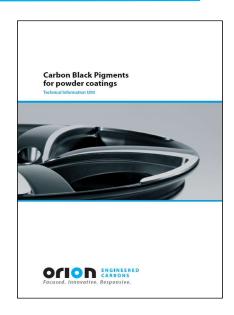
- Full range from tinting blacks to high jetness
- For water- and solvent-borne systems
- After-treated and non-after-treated products
- For powder and UV-coatings
- Excellent weather stability
- Single Manufacturer of Furnace, Gas, Lamp,
   Thermal and Acetylene Black Technology





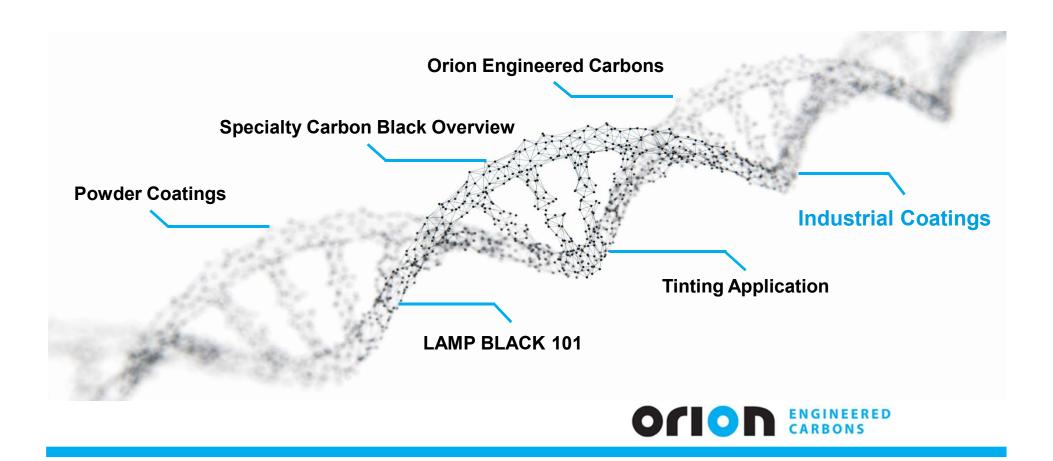
### Specialty Carbon Blacks for Powder Coatings

- Most decisive factor: particle size
  - → the smaller, the higher the jetness and tinting strength
- After-treatment typically does not provide a benefit in coloristic performance
  - → non-after-treated grades give better cost / performance ratio
- After-treatment might improve flow behavior and processability



 To avoid dust and separation of carbon black from other ingredients during feeding the extruder, normally beaded carbon blacks are preferred. But carbon black powder can be used as well, like practice for most pigments.





### Specialty Carbon Blacks mainly used in Industrial Coatings

Mass tone



**Tinting** 



**SPECIAL BLACK 4** 

**SPECIAL BLACK 40** 

PRINTEX® U, PRINTEX® V

**SPECIAL BLACK 6** 

**COLOUR BLACK FW 1** 

PRINTEX® G

SPECIAL BLACK 100

LAMP BLACK 101

COLOUR BLACK FW 200

**COLOUR BLACK FW 255** 

**COLOUR BLACK FW 310** 



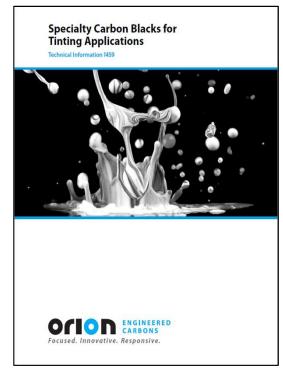
especially used in Teltronics

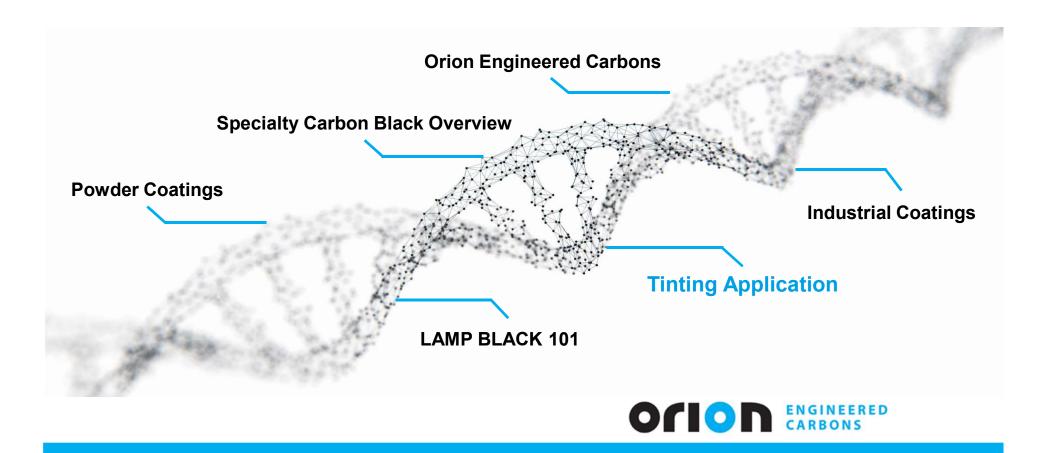


### **Available Technical Information**

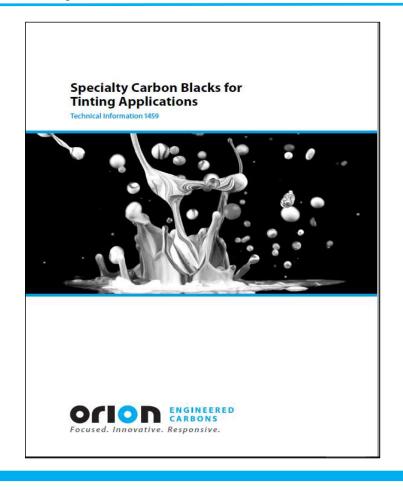
# Specialty Carbon Blacks for Industrial Coatings Technical Information 1458 Focused. Innovative. Responsive.



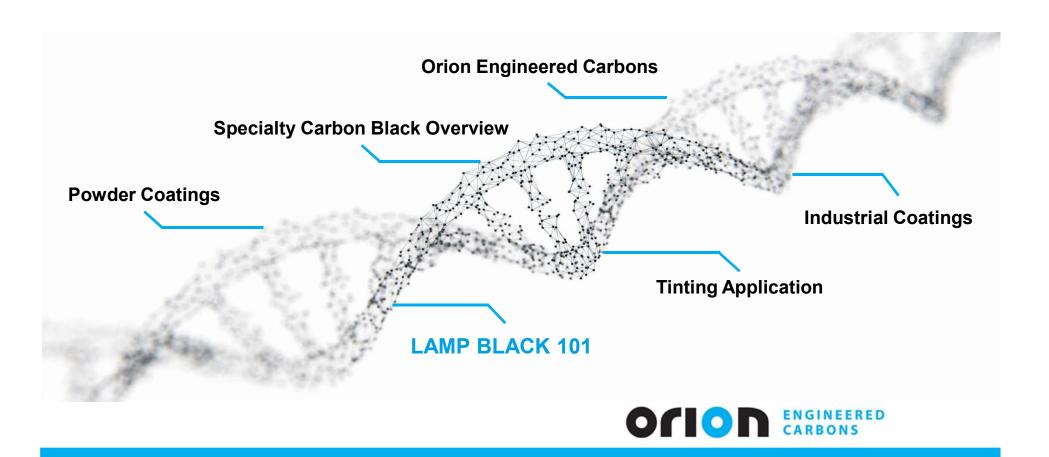




### Specialty Carbon Blacks for tinting applications

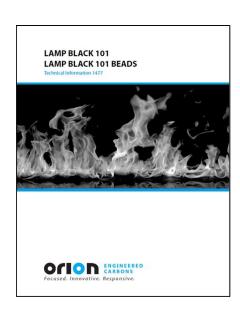






### LAMP BLACK 101 as an alternative to iron oxide black

- Coarse primary particle size, broad primary particle size distribution and high structure
  - → allow an easier dispersibilty in coatings compared to finer Specialty Carbon Blacks
- Mainly used for tinting in liquid or powder coatings
- Typically provides a bluish undertone in grey coatings
- Low tinting strength results in relatively minor metering errors
- In mass tones low jetness with typically brownish undertone
- Offers excellent light fastness, chemical resistance and thermal conductivity







## Thank you very much for your attention.

Silvia Witt
Technical Market Manager Coatings
Office +49 2233 964-708
silvia.witt@orioncarbons.com





All information provided in this presentation and all documents, samples; sample test results and any other information provided by Orion (Orion Engineered Carbons GmbH as well as all other Orion Engineered Carbons group companies, including Orion Engineered Carbons SA) to you are for information purposes only and are given as of this date. They are based on current knowledge and ORION DOES NOT GIVE ANY REPRESENTATION OR WARRANTY THAT THE CONTENTS OF THE GIVEN STATEMENTS AND INFORMATION ARE CORRECT OR ACCURATE. ANY LIABILITY OF ORION WITH REGARD TO THE CONTENTS PROVIDED ARE HEREBY EXPRESSLY EXCLUDED. WE GIVE IN PARTICULAR NO "FIT FOR USE" WARRANTY OR ANY OTHER TYPE OF WARRANTY, REPRESENENTATION OR ASSURANCE WITH REGARD TO OUR PRODUCTS WHEN BLENDED OR MIXED WITH OTHER CARBON BLACK GRADES OR TYPES OR ANY OTHER SUBSTANCES.

Any information distributed by ORION must be kept strictly confidential and such information must not be disclosed to any third party. Nothing herein shall be construed as a granting of license or other intellectual property right or recommendation for use. Dissemination of the information given by ORION is strictly limited to those employees or persons whose duties justify their need to know of such information and then only on the basis of a clear commitment of these employees or persons to maintain the trade secret status of such information. Any and all information disclosed by ORION shall remain the property of ORION.





