



# Pharmaceutical Zinc Oxide (API)

## **Pharmaceutical Zinc Oxide (API)**

### **GMP Confirmation**

**Meets the purity  
standards defined in  
the Ph. Eur. and USP**

Grillo Zinkoxid GmbH is one of the leading producers of zinc oxide in Europe and look back on more than 100 years of tradition at the site in Goslar, Germany.

Grillo Zinkoxid GmbH is one of the first German manufacturers to produce ultra-pure zinc oxide that can be used both in human and veterinary medicine.

Pharma 4 GMP, Pharma 6 GMP and Pharma 8 GMP are pharmaceutical, ultra-pure zinc oxides made from metallic super high grade (SHG) zinc in accordance with part II of the EU GMP guidelines. They meet – and in some cases exceed – the purity standards defined in the applicable pharmacopoeia (ph. Eur. and USP).

In cosmetics, zinc oxide nourishes skin, act as a UV absorber to protect skin against intensive sun exposure and supports wound healing.



Grillo Zinkoxid GmbH



## Grillo Zinkoxid GmbH has taken the following steps to obtain GMP certification:

- Mitigation risk assessment for all of process steps (Production, Laboratory, dispatch, ...)
- GxP-assessment for all Plants, Systems and equipment's
- Validation remediation plan with time table

**THE REGISTRATION FOR GMP-APPROVAL WILL BE PERFORMED IN THE FIRST QUARTER OF 2017**

GMP	Zinc Oxide pharma 4 GMP	Zinc Oxide pharma 6 GMP	Zinc Oxide pharma 8 GMP
Compliant to EP and USP specification	yes	yes	yes
Max lead (Pb) specification	20 ppm	20 ppm	20 ppm
Specific surface area range (m <sup>2</sup> /g)	BET 3 - 5	BET 5 - 7	BET 7 - 9



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