



the art and science of smart patch testing™

MC259: Zirconium (IV) oxide

Patient Information

Your patch test result indicates that you have a contact allergy to zirconium (IV) oxide. This contact allergy may cause your skin to react when it is exposed to this substance although it may take several days for the symptoms to appear. Typical symptoms include redness, swelling, itching, and fluid-filled blisters.

Where is zirconium (IV) oxide found?

Zirconium oxide is a ceramic material. It is found in insulation, abrasives, enamels, ceramic glazes, and jewelry. It is also used in the construction of dental restorations such as crowns and bridges. Zirconium (IV) oxide is used as radio-opaque material in bone cement. In orthopedic surgery bone cement is used to fix metal implants such as hip replacements and knee replacements.

How can you avoid contact with zirconium (IV) oxide?

Avoid products that list the following in the ingredients:

- AI3-29087
- C.I. 77990
- C.I. Pigment White 12
- CAP (oxide)
- CC 10
- CCRIS 6601
- E 101
- EINECS 215-227-2
- NSC 12958
- NZS 30A
- Nissan Zirconia Sol NZS 20A
- Norton 9839
- Nyacol Zr (acetate)
- PCS (filler)
- Pigment White 12
- Rhuligel
- TZ 3YTSK
- Torayceram Sol ZS-OA
- ZD 100
- Zircoa 5027
- Zirconic anhydride
- Zirconium White
- Zirconium oxide
- Zirconium oxide (VAN)
- Zirox Zt 35

What are some products that may contain zirconium (IV) oxide?

Dental bridges

Dental crowns

Metal implants

Jewelry

*For additional information about products that might contain **zirconium (IV) oxide**, go to the Household Product Database online (<http://householdproducts.nlm.nih.gov>) at the United States National Library of Medicine. These lists are brief and provide just a few examples. They are not comprehensive. Product formulations also change frequently. Read product labels carefully and talk to your doctor if you have any questions. These are general guidelines. Talk to your doctor for more specific instructions.