

### What gloves can I use for a solid chemical?

Generally, if you are handling dry solid materials at or near room temperature, any chemical-resistant glove and or disposable glove should be suitable. Keep the following in mind, however:

- If the solid is finely powdered, you may need some type of facial protection (e.g., from inhalation). Check the MSDS for the material.
- If it is chemically reactive (e.g., with oxygen or moisture from the air), appropriate precautions must be taken during its handling. Again, check the MSDS.
- If you will be making a solution of the material, or if it is an ingredient in a chemical reaction, be sure that the glove you choose will provide adequate protection against the other chemicals you are handling.
- Even relatively inert solids can eventually permeate into the glove polymer and degrade its physical properties. The outside of the glove can be thoroughly cleaned, but solid material may remain on or in the glove.

Concerning the latter point, there is no practical way to completely remove a solid chemical that has permeated into a glove. Volatile liquids can evaporate back out during overnight storage in the open air, but solids (as well as nonvolatile liquids) will remain. Workers can be exposed if the chemical reaches the inside, and anything that they handle may be contaminated by residual solid that has diffused back to the outside surface. In some cases it may be necessary to limit the service life of such gloves to a use time as short as one day, depending on the particular glove/chemical combination used.

*Recommendations made in this note are based on extrapolations from laboratory test results and information regarding the composition of chemicals and may not adequately represent specific conditions of end use. Synergistic effects of mixing chemicals have not been accounted for. For these reasons, and because Ansell has no detailed knowledge of or control over the conditions of end use, any recommendation must be advisory only and Ansell fully disclaims any liability including warranties related to any statement contained herein.*