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## Handling Smoke Damage after a Fire – Getting Soot and Smoke Out

You may be anxious to clean your home after a fire, but unless you take the time to get professional advice, you may be wasting your efforts or creating further damage. Contact your insurance agency immediately once the fire is out. He or she can provide advice on restoration or replacement of damaged items. If you rent, notify the owner so both of you can assess the damage. Your insurance agent may be able to recommend a professional fire restorer. Fire restorers can provide hints to prevent further damage, help determine which items can or cannot be refurbished, and provide estimates and services for thoroughly cleaning and deodorizing your home. You can find the names of fire restorers in the yellow pages of the phone directory under “Carpet and Upholstery Cleaners” or “Fire and Water Damage Restoration.” Check with your Better Business Bureau (BBB) at [www.southerncolorado.bbb.org](http://www.southerncolorado.bbb.org) to make sure the business/contractor is legitimate.

### Removing Smoke Odor from Textiles

Smoke odor may remain in clothing, upholstered furniture, carpets and draperies unless they are properly deodorized before cleaning. Professional assistance is recommended.

Consult professional fire restorers and/or dry cleaners about using "counteractants," chemicals or additives that break up smoke molecules to eliminate odors. The type of counteractant used will vary with the type of material burned in the fire. Counteractants may be professionally applied to furniture, carpets and draperies. Restorers also may provide them for laundering clothes.

Fire restorers and dry cleaners sometimes use an ozone treatment to break up smoke molecules and eliminate odors. If the process is done in the home, items are put under a tent while an ozone generator is operating.

Keep in mind that most household deodorizing sprays and disinfectants provide only temporary relief. In addition, deodorizing sprays may interact with smoke odor and create an additional odor. If you are unable to have clothing or similar textiles professionally treated, try one of the following methods:

- Dissolve one cup of dishwashing detergent—the type used in an automatic dishwasher—in one gallon of warm water.
- Completely submerge the items and let them soak all night in your washing machine or bathtub. Drain and launder as usual the next day.

- For items that can be bleached, mix 4 to 6 tablespoons trisodium phosphate (available from your hardware store) with 1 cup Lysol or household chlorine bleach and 1 gallon of water. Add clothes, rinse with clear water and dry.

### **Cleaning Furnishings and Clothing**

After deodorizing, it's time to clean household textiles. Take non-washable clothing and draperies to a dry cleaner for traditional dry cleaning or a special cleaning process. Wash regular clothing in warm water with a liquid detergent. Several launderings may be needed.

Have carpets cleaned twice—both before and after repairs. Wet carpets must be dried before cleaning. In some cases, removal of carpet is necessary for complete drying and to save the wood floor beneath.

### **Cleaning Soot Stains from Walls**

If possible, use a chemical sponge available from a cleaning supply company or some other non-water-based cleaner to clean soot from walls.

Paint thinner or rubbing alcohol may work, but use with caution because of toxicity and fumes. Wear rubber gloves, open all windows and use an electric fan to increase ventilation while working.

Do not use a water-based cleaner on plaster walls. It will cause the stain to bleed into the wall.

### **Removing Smoke Odor from the Home**

During a fire, smoke can permeate walls and other surfaces and drift through household ducts, where it becomes trapped. If not properly removed, smoke odor reoccurs from time to time, especially during warm or damp weather.

Consult professional restorers about a process known as "thermal fogging." This warm chemical fog penetrates your home and walls just as the fire did, neutralizing the smoke odor as it goes.

Consult restorers about smoke removal from ducts. They may use a chemical sealer to secure smoke permanently to the sides of ducts since these areas, with their joints and crevices, may be difficult to clean with conventional vacuum-and-brush methods. Consider replacement of attic insulation. Insulation may retain odors.

### **Additional Resources**

- Your local fire department, Colorado Springs Fire Department: [www.springsgov.com](http://www.springsgov.com)
- American Red Cross: <http://www.pparc.org/>
- The National Institute of Fire Restoratio: <http://www.nir-inc.com/>
- The Federal Emergency Management Agency: [www.fema.gov](http://www.fema.gov)

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