

OSHA Compliance Checklist

Spray Finishing Using Flammable and Combustible Materials (1910.107)

	O.K.	Action Needed
General Requirements		
1. Are spray booths substantially constructed of steel and securely and rigidly supported?		
a. Or of concrete or masonry?		
b. Or aluminum if <u>only</u> for intermittent or low volume spraying?		
2. Are spray booths designed to sweep air currents toward the exhaust outlet?		
3. Are the interior surfaces smooth and continuous?		
4. Is the working area covered with a noncombustible surface?		
Baffle Plates		
1. Are baffle plates installed so as to promote an even flow of air?		
Dry Type Overspray Collectors		
1. Is the average face velocity across the hood at least 100 feet per minute?		
2. Are visible gauges, alarms, or pressure activated devices installed to indicate or insure the required air velocity is maintained?		
3. Is the space upstream and downstream of the filter protected by automatic sprinklers?		
4. If the frontal area is greater than 9 square feet, is a metal deflector or curtain provided?		
Separation of Operations		
1. Is a minimum of three feet separation provided from other operations?		
2. Is at least three feet provided on all sides of the booth for access purposes?		
Sources of Ignition		
1. Are open flame or spark producing equipment excluded from within 20 feet of the spraying operation?		
2. Is all electrical equipment used in the spraying area properly rated for use in flammable environments?		
a. Explosion-proof?		
b. Class I, Division I?		
Lamps		
1. Are all electrical lamps within 20 feet of any spraying area (not separated by partition) totally enclosed and protected from mechanical injury by guarding or location?		
2. Are portable lamps excluded from the spraying area?		
Grounding		
1. Are the metal parts of spray booths, exhaust ducts, and piping systems electrically grounded in a permanent manner?		
Ventilation		
1. Is the ventilation and exhaust system in conformance with NFPA 91?		
2. Is ventilation kept on during all spraying operations and for a sufficient time after to dissipate vapors from spraying and drying finished materials?		

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3. Is an independent exhaust unit supplied for each ventilation unit?		
4. Is the fan rotating element made of a nonferrous or nonsparking material, or is the casing made of this material?		
5. Are all bearings of a self lubricating type, or lubricated from the outside duct?		
6. Are electric motors driving exhaust fans placed outside of booths or ducts?		
7. Are drive belts excluded from the inside of the duct or booth?		
8. Is the exhaust duct made of steel and substantially supported?		
9. Are unprotected combustible materials excluded at least 18 inches from exhaust ducts?		
10. Are exhaust ducts protected against mechanical damage?		
11. Is the exhaust discharge (unless from water fall system) more than six feet from any combustible exterior wall or roof?		
a. Or, does it discharge away from combustible construction or unprotected openings in any noncombustible exterior wall within 25 feet?		
12. Is the exhaust air directed so that it will not contaminate makeup air or be recirculated?		
13. Are drying pieces dried in areas with adequate ventilation to prevent the formation of explosive vapors?		

Flammable and Combustible Liquids - Storage and Handling

1. Does the storage of flammable and combustible liquids conform to the requirements of 1910.106 (check)?		
2. Is the quantity of flammable or combustible liquids kept in the vicinity of spraying operations kept to the minimum needed for one day or one shift?		
3. Is the bulk storage of flammable liquids prohibited from the spraying area?		
4. Are only the following flammables or combustibles allowed in the spraying area?		
a. Original closed containers?		
b. Approved portable tanks?		
c. Approved safety cans?		
d. Or appropriate piping systems?		
5. Is the transfer of flammable or combustible liquids from containers greater than 60 gallons accomplished only by approved pumps?		
6. Are all filling operations done only in a suitable mixing room or spraying area when the ventilation system is in operation?		
7. Are adequate precautions taken to protect against spillage and sources of ignition during filling operation?		
8. Are containers supplying spray nozzles of a closed type or provided with metal covers kept closed?		
9. Are containers supplying spray nozzles kept on metal supports or suspended by wire cables?		
10. Are containers supplying spray nozzles less than 10 gallons in capacity?		

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1. Are all containers or piping attached to a hose or flexible connection provided with a shutoff valve at the connection?		
2. If a pump is used, is an automatic means provided to prevent pressures in excess of design pressures in the accessories, piping and hose?		
3. Are all pressure hose and couplings inspected regularly by pressurization and withdrawn from service if found unsatisfactory?		
4. Are all piping systems conveying flammable or combustible liquids made of steel (or equivalent) properly bonded and grounded?		
Spray Liquid Heaters		
1. Are spray liquid heaters excluded from spraying areas?		
Grounding		
1. Are containers transferring flammable or combustible liquids properly bonded and grounded to prevent discharge?		
Protection		
1. Are adequate sprinkler services located so as to provide water distribution throughout the booth?		
2. Are sprinkler heads accessible?		
3. Are sprinkler heads free of deposits?		
4. Are portable extinguishers installed near all spraying areas?		
Operations and Maintenance		
1. Is spraying prohibited from areas outside of predetermined spraying areas?		
2. Are all spraying areas kept as free of accumulations of combustible residues as practical?		
3. Are all cleaning tools used to scrape of residues made of a nonsparking material?		
Residue Disposal		
1. Are residues and debris-containing residues immediately removed and disposed of?		
2. Are approved metal waste cans provided for rags impregnated with flammable materials?		
3. Are the contents of metal waste cans disposed of at least daily or at the end of each shift?		
Clothing Storage		
1. Are the protective clothing provided not left in the premises overnight unless kept in metal lockers?		
Cleaning Solvents		
1. Are all cleaning solvents restricted to those having a flashpoint exceeding 100°F?		
2. Is all equipment cleaning conducted inside spray booths?		
"No Smoking" Signs		
1. Are "No Smoking" signs conspicuously posted in all spraying areas and paint storage rooms?		