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MAGNESIUM CHECKLIST

California Fire Code Chapter 36

Scope

An operational permit is required for storage, use, handling and processing of magnesium, including the pure alloys of which the major part is magnesium.

Conditions:

- Storage piles greater than 50 cubic foot are separated from other piles, combustibles or items in combustible containers by aisle widths equal to pile height.
- Storage greater than 1,000 cubic foot are separated into 1,000 cubic foot piles and separated by aisle widths equal to pile height.
- Storage piles greater than 1,000 cubic foot are not located in nonsprinklered Type III, IV or V buildings.
- Storage piles less than 1,000 cubic foot in nonsprinklered Type III, IV or V buildings are not in combustible containers and are separated from other combustibles by 30 feet.
- Storage piles in foundries and processing plants do not exceed 1,250 cubic foot and piles are separated by aisle widths equal to ½ pile height.
- Indoor storage of magnesium pigs, ingots and billets is less than 500,000 pounds, is located on noncombustible floors and piles are separated by aisle widths equal to ½ pile height.
- Outdoor storage of magnesium pigs, ingots and billets is less than 1,000,000 pounds, piles are separated by aisle widths equal to ½ pile height and piles are separated from combustibles and buildings by aisle widths equal to pile height.
- Magnesium fines are separated from combustibles.
- 50-1,000 cubic foot magnesium scrap storage is separated from other occupancies by 50 feet or rated construction.
- Magnesium scrap storage in excess of 1,000 cubic foot is separated from buildings by 100 feet.
- Floors at melting pots are of noncombustible construction.

- Dust collection hood or enclosure connected to a liquid-precipitation type of separator is provided at each magnesium grinding, buffing and wire-brush machine.
- Dust collection ducts are grounded and without bends.
- Dust collection interlock is provided and maintained.
- Class II, Division 1, electrical and electrical equipment is provided at dust collection machine.
- Magnesium processing equipment is grounded.
- Class D fire extinguisher is provided within 75 feet of operation or magnesium extinguishing material in container with scoop is provided within 30 feet of operation.
- Magnesium chips, turning and fine scrap is collected and kept in vented steel container.

Additional Requirements may apply.