

### 1.1.25. Identification of Classes of Materials (Commodity Classes)

The identification of classes of materials for sprinkler design consideration shall be as per **Table 9.2. (NFPA Table A.5.6.3.)**, in alphabetical order.

**Table 9.2: Classes of Materials/ Commodity**

PRODUCT CATEGORY	PRODUCTS	COMMODITY CLASS
<b>1. BATTERIES</b>	<ul style="list-style-type: none"> <li>i. Dry cells (excludes lithium, lithium-ion, and other similar exotic metals or combustible electrolyte); without blister packing (if blister packed refer to commodity classification definitions)</li> <li>ii. Vehicle; any size (e.g., automobile or truck); Empty plastic casing.</li> <li>iii. Nonexpanded Vehicle; large (e.g., truck or larger); dry or wet (excludes lithium-ion and other cells containing combustible electrolyte) cells.</li> <li>iv. Vehicle; small (e.g., automobile); wet (excludes lithium-ion and other cells containing combustible electrolyte) cells</li> </ul>	<p>Class I</p> <p>Group A Nonexpanded</p> <p>Group A Nonexpanded</p> <p>Class I</p>
<b>2. EMPTY CONTAINERS</b>	<ul style="list-style-type: none"> <li>i. Noncombustible</li> <li>ii. PET, bottles or jars</li> <li>iii. Wood; solid sided (e.g., crates, boxes)</li> <li>iv. Rigid plastic (not including PET), up to 32 oz. (1 L)</li> </ul>	<p>Class I</p> <p>Class IV</p> <p>Class II</p> <p>Group A Expanded</p>
<b>3. FILM ROLLS, PHOTOGRAPHIC ROLLS</b>	<ul style="list-style-type: none"> <li>i. Film (polypropylene, polyester, polyethylene); rolled on any reel type.</li> <li>ii. Film; 35 mm metal film cartridges in polyethylene cans; cartoned.</li> <li>iii. Film; motion picture or bulk rolls in polycarbonate, polyethylene or in metal cans; polyethylene bagged; cartoned.</li> <li>iv. Film; rolls in polycarbonate plastic cassettes; cartoned.</li> <li>v. Photographic paper; sheets; bagged in polyethylene; cartoned</li> </ul>	<p>Class II</p> <p>Class III</p> <p>Class II</p> <p>Class IV</p> <p>Class III</p>
<b>4. FLAMMABLE / COMBUSTIBLE LIQUIDS</b>	<ul style="list-style-type: none"> <li>i. Aerosol; Level</li> <li>ii. Lighters; butane; blister-packed; cartoned.</li> <li>iii. Liquids; up to 20 percent alcohol (e.g., alcoholic beverages, flavoring extracts); greater than 5 gallon (20 L) plastic containers with wall thickness greater than <math>\frac{1}{4}</math> in. (6 mm)</li> <li>iv. Liquids; up to 20 percent alcohol (e.g., alcoholic beverages, flavoring extracts); metal, glass or ceramic containers.</li> <li>v. Liquids; up to 20 percent alcohol (e.g., alcoholic beverages, flavoring extracts); wood, plastic containers greater than 5 gallons (20 L) and wall thickness up to <math>\frac{1}{4}</math> in. (6 mm)</li> <li>vi. Liquids; up to 20 percent alcohol (e.g., alcoholic beverages, flavoring extracts); up to 5 gallons (20 L) plastic bottles or jars.</li> </ul>	<p>Class III</p> <p>Group A Nonexpanded</p> <p>Group A Nonexpanded</p> <p>Class I</p> <p>Class II</p> <p>Class I</p>