



SUMMARY OF SANS 10108: 2004
THE CLASSIFICATION OF HAZARDOUS LOCATIONS AND APPLICABLE EQUIPMENT

GAS & VAPOUR	DUST & FIBRE
<p>ZONE 0: Atmosphere continuously explosive</p> <p>Ex (ia)</p>	<p>ZONE 20*: Combustible dust continuously present as a cloud during normal operation or where excessively thick layers can form.</p> <p>Equipment per Zone 21 below. This apparatus is called "Category 1" apparatus in the ATEX directive.)</p>
<p>ZONE 1: Atmosphere likely to be explosive under normal operating conditions.</p> <p>Ex d Ex s Ex e* Ex m Ex q Ex l (a & b) Ex p</p> <p>(This apparatus is called "Category 2" apparatus in the ATEX directive.)</p>	<p>ZONE 21*: Atmosphere likely to contain ignitable concentrations of flammable dust in suspension under normal operating conditions.</p> <p>DIP and IP65 (Not DIP A22 & B22) Ex d (without vents) Ex p Ex i (a & b) with IP65 enclosures Ex m Ex q (also Ex e, Ex n & Ex s with IP65 if specifically certified.)</p> <p>(This apparatus is called "Category 2" apparatus in the ATEX Directive.)</p>
<p>ZONE 2: Atmosphere explosive only under abnormal conditions.</p> <p>Per Zone 1 plus: Ex n Ex p</p> <p>(This apparatus is called "Category 3" apparatus in the ATEX directive.)</p>	<p>ZONE 22*: Combustible dust cloud may occur infrequently and persist for short periods & where dust layers present under abnormal conditions only.</p> <p>As above plus: - Normal Motors with IP54 terminal boxes - DIP (A22 & B22)</p> <p>(This apparatus is called "Category 3" apparatus in the ATEX directive.)</p>