

# HAZARDS AND IP RATINGS



## Hazards

Grouped according to explosive characteristics:

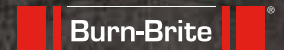
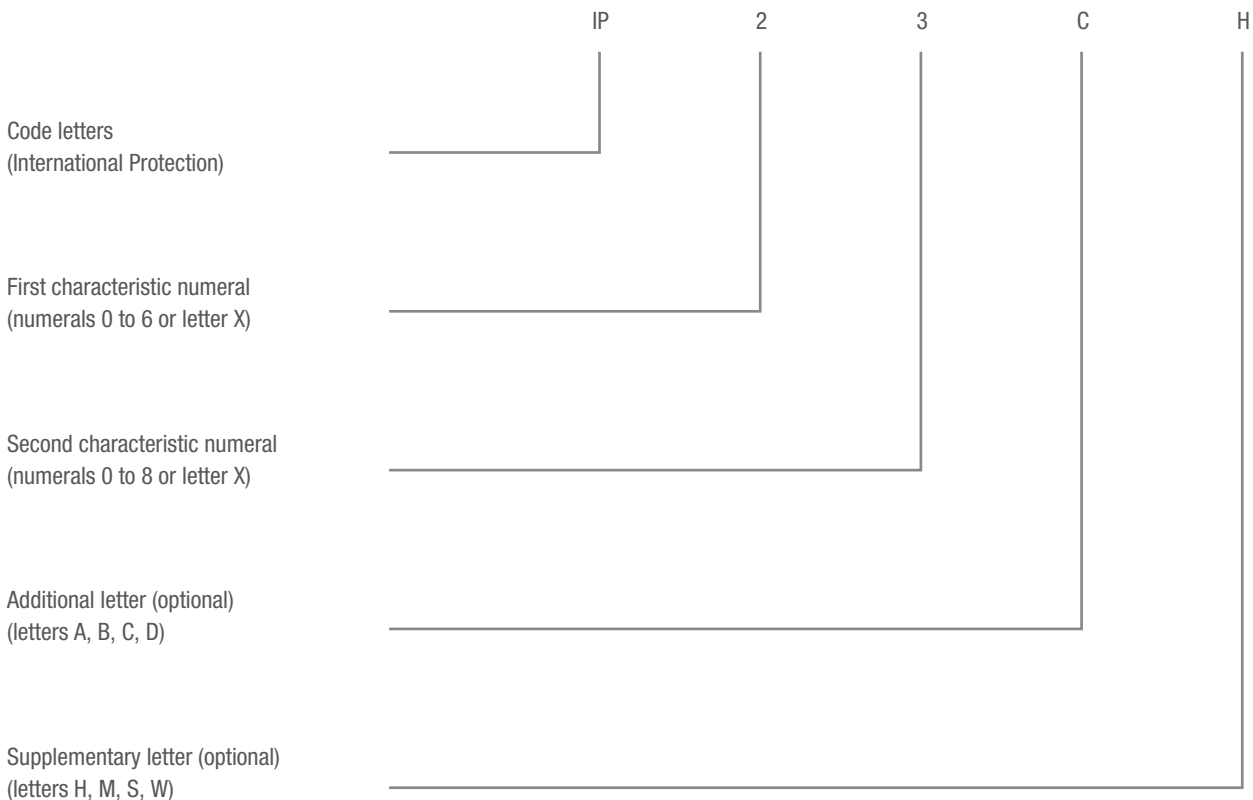
- Gas group I                      Methane, underground mining
- Gas group IIA & B              Above ground gases and vapours
- Gas group IIC                    Hydrogen and acetylene

*See table 5.1 of AS 2380 part 2, 1991 AS/NZS & IEC 60079.1*

These groups determine the flamepath dimensions of the Ex d equipment.

## IP Rating

Classification of degrees of ingress protection as defined by AS1939 1990. The degree of protection provided by an enclosure is indicated by the IP code in the following way.

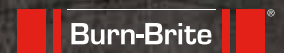


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First characteristic numeral	Description	Second characteristic numeral	Description
0	Non-protected	0	Non-protected
1	Protected against solid foreign objects of 50mm diameter & greater	1	Protected against vertically falling water drops
2	Protected against solid foreign objects of 12.5mm diameter & greater	2	Protected against vertically falling drops when enclosure is tilted up to 15°
3	Protected against solid foreign objects of 2.5mm diameter & greater	3	Protected against spraying water
4	Protected against solid foreign objects of 1.0mm diameter & greater	4	Protected against splashing water
5	Dust protected 5 protected against water jets	6	Dust-tight 6 protected against powerful jets
		7	Protected against the effects of temporary total immersion in water
		8	Protected against the effects of continuous immersion in water



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