

# Suitability of Dräger respiratory protection components for potentially explosive atmospheres.

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		GAS EXPLOSION PROTECTION ZONES						DUST EXPLOSION PROTECTION ZONES					
		IIC		IIB		IIA		IIIC		IIIB		IIIA	
		Zone 0, 1, 2	Zone 1, 2	Zone 0, 1, 2	Zone 1, 2	Zone 0, 1, 2	Zone 1, 2	Zone 20, 21, 22	Zone 21, 22	Zone 21, 22	Zone 21, 22	Zone 21, 22	
Compressed air hose units	Dräger PAS X-plore	X	✓	✓	✓	✓	✓	X	X	✓	✓		
	Dräger X-plore® 9300	X	✓	✓	✓	✓	✓	X	X	✓	✓		
	Dräger X-plore® 9500	X	✓	✓	✓	✓	✓	X	X	✓	✓		
Breathing air supply modules	PAS® AirPack 1	X	X	X	✓	X	✓	X	✓	✓	✓		
	PAS® AirPack 2	X	X	X	✓	X	✓	X	✓	✓	✓		
	PAS® MAC 2000EX	X	X	✓	✓	✓	✓	X	X	X	X		
	Air hose, various lengths (3 - 50 m)	X	X	X	✓	X	✓	X	✓	✓	✓		
Full-face masks	FPS 7000 (RA, PE, ESA, P) with PCas and PCaf visor	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
	FPS 7000 (RA, PE, ESA, P) with PC visor	X	X	✓	✓	✓	✓	✓	✓	✓	✓		
	Panorama Nova (RA, PE, ESA, P) with Triplex and PC/C, PC/CC visor <sup>1</sup>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
	Panorama Nova (RA, PE, ESA, P) with PC visor <sup>1, 3</sup>	X	X	✓	✓	✓	✓	✓	✓	✓	✓		
	X-plore® 5500 with bayonet filter (plastic) and PC visor <sup>2</sup>	X	X	✓	✓	✓	✓	✓	✓	✓	✓		
	X-plore® 5500 with bayonet filter (plastic) and triplex visor <sup>2</sup>	X	X	✓	✓	✓	✓	✓	✓	✓	✓		
	X-plore® 6300 with aluminium filter	X	✓	X	✓	X	✓	X	✓	✓	✓		
	X-plore® 6500 with aluminium filter	X	X	X	✓	X	✓	X	✓	✓	✓		
Powered air-purifying respirator	X-plore® 8700	X	X	X	✓	X	✓	X	X	✓	✓		
	X-plore® 8000 helmet with face screen	X	✓	✓	✓	✓	✓	✓	✓	✓	✓		
	X-plore® 8000 helmet with protective visor	X	✓	X	✓	X	✓	✓	✓	✓	✓		
	X-plore® 8000 standard hood (short)	X	X	X	✓	✓	✓	✓	✓	✓	✓		
	X-plore® 8000 standard hood (long)	X	X	X	X	X	X	✓	✓	✓	✓		
	X-plore® 8000 premium hood (short)	X	✓	✓	✓	✓	✓	✓	✓	✓	✓		
	X-plore® 8000 premium hood (long)	X	X	✓	✓	✓	✓	✓	✓	✓	✓		
	X-plore® 8000 with X-plore® 4740 SI	X	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Splash protection suits	SPC 4700	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
	SPC 4800	X	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Short-term compressed air respirator	PAS® Colt (with EN 1237/EN 14593-1 airline connection)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
	PAS® Colt (with EN 1237/EN 14593-1 airline connection)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		

All non-electronic components are only tested with regard to the explosive zones. These are not ATEX-approved. Please note that within a single system, only the zones of the weakest components apply.

## ZONE DEFINITIONS ACC. TO ATEX 137, APPX. I, 2

Zone	Explosion-hazard areas are categorised into zones depending on how likely it is that an explosive atmosphere might occur there:
Zone 0	Area in which a potentially explosive atmosphere consisting of a mixture of air and flammable substances in the form of gas, vapour or mist is present continuously, frequently or for long periods.
Zone 1	Area in which a potentially explosive atmosphere consisting of a mixture of air and flammable substances in the form of gas, vapour or mist is likely to occasionally occur under normal operating conditions.
Zone 2	Area in which a potentially explosive atmosphere consisting of a mixture of air and flammable substances in the form of gas, vapour or mist is unlikely to occur under normal operating conditions but, if it does occur, will persist for a short period only.
Zone 20	Area in which a potentially explosive atmosphere in the form of a cloud of combustible dust contained in the air is present continuously, frequently or for long periods.
Zone 21	Area in which a potentially explosive atmosphere in the form of a cloud of combustible dust in the air is likely to occur occasionally under normal operating conditions.
Zone 22	Area in which a potentially explosive atmosphere in the form of a cloud of combustible dust in the air is unlikely to occur under normal operating conditions but, if it does occur, will persist for a short period only.

## MARKINGS ACC. TO EN 60079-0 (GAS EXPLOSION SAFETY)

### EXPLOSIVES GROUPS I AND II (GASES)

Marking	Gases and vapours	Approved device groups
IIA	Low ignitability, typical gas: Propane	IIA, IIB and IIC
IIB	Moderate ignitability, typical gas: Ethylene	IIB and IIC
IIC	High ignitability, typical gas: Hydrogen	Only IIC

- <sup>1</sup> Protective foil in combination with Visor IIC, Zone 0, 1, 2  
Protective foil in combination with helmet/Visor: IIC, Zone 1, 2
- <sup>2</sup> Suitable without protective foil
- <sup>3</sup> Dependent on visor (coated or uncoated)

## MARKINGS ACC. TO EN 60079-0 (DUST EXPLOSION SAFETY)

### EXPLOSIVES GROUP III (DUST)

Marking	Dust particles	Approved device groups
IIIA	Flammable fibres	IIIA, IIIB and IIIC
IIIB	Electrically non-conductive dust	IIIB and IIIC
IIIC	Electrically conductive dust	Only IIIC