

# ATMOSPHÈRES EXPLOSIVES EN ENTREPRISE

QUELS RISQUES ?  
QUELLE DÉMARCHÉ DE PRÉVENTION ?



# Les équipements en zone ATEX

[thierry.delbaere@ineris.fr](mailto:thierry.delbaere@ineris.fr)

Mardi 17 novembre 2020

JOURNÉE  
TECHNIQUE

# La directive ATEX



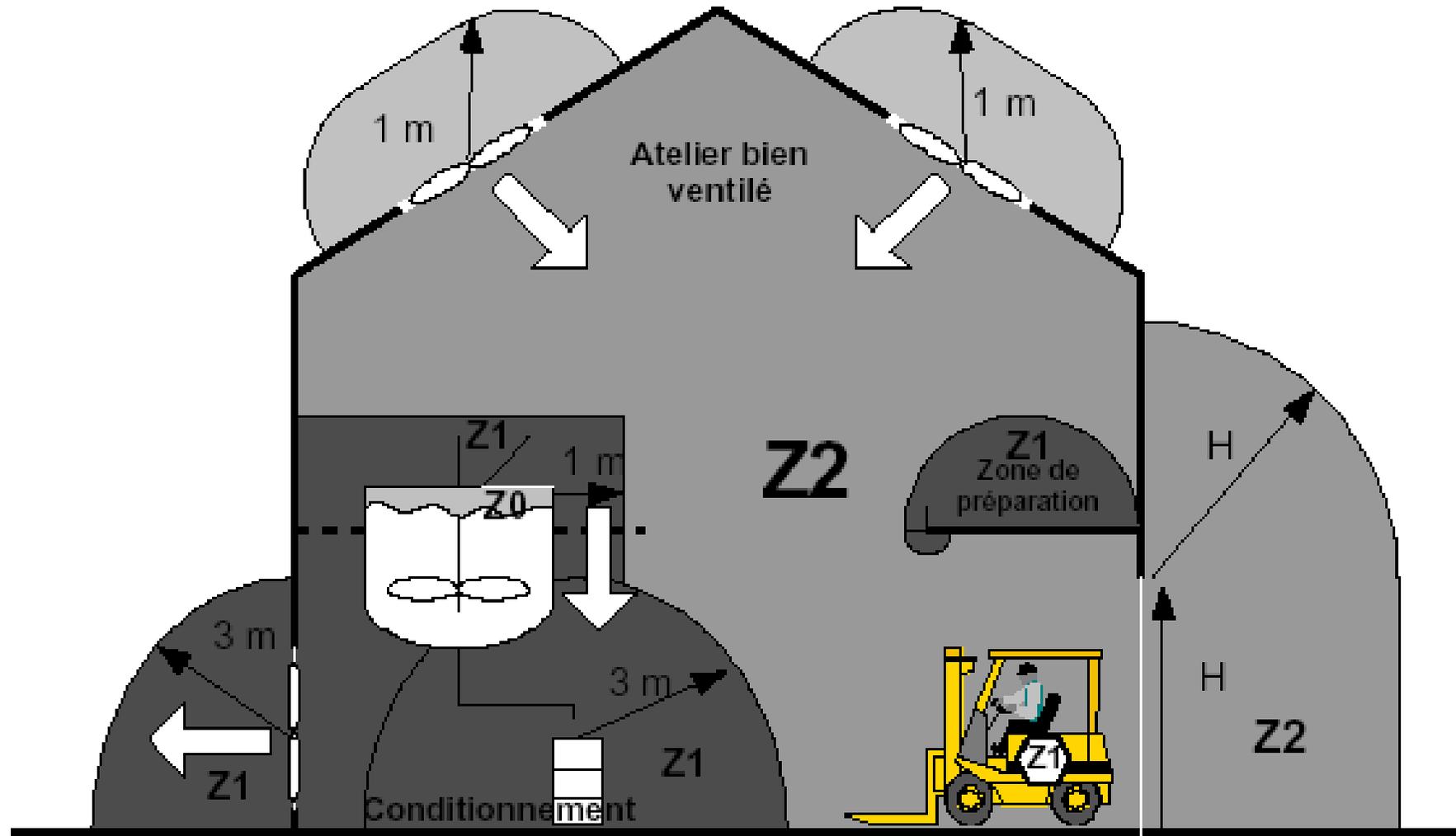
**DIRECTIVE 2014/34/UE DU PARLEMENT EUROPÉEN ET DU CONSEIL**

**du 26 février 2014**

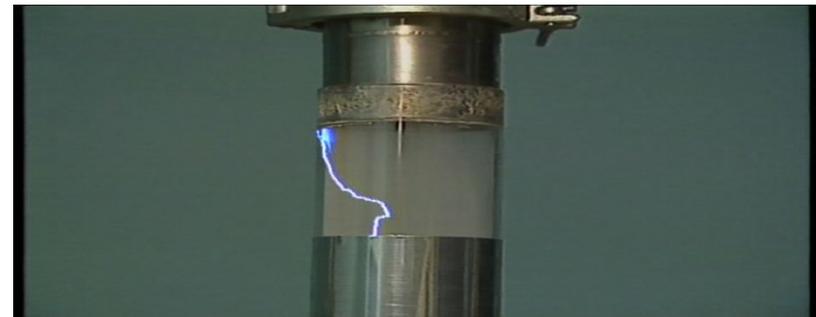
relative à l'harmonisation des législations des États membres concernant les **appareils et les systèmes de protection destinés à être utilisés en atmosphères explosibles** (refonte)



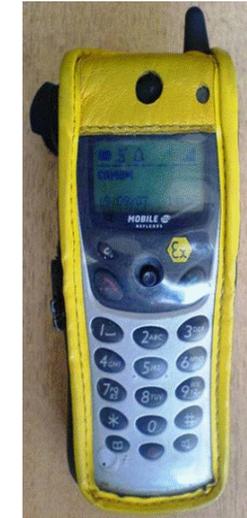
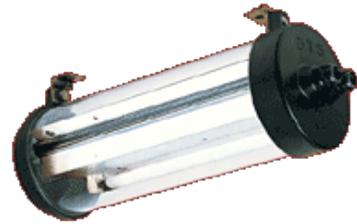
# ATEX = Atmosphère Explosive ou Explosible ?



# Des exemples de sources d'inflammation...



# Quels équipements doivent être conformes à la directive ATEX?



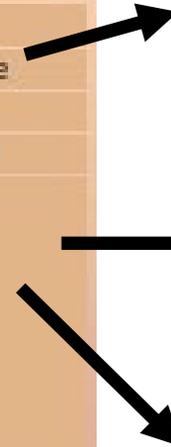
# La borderline list...



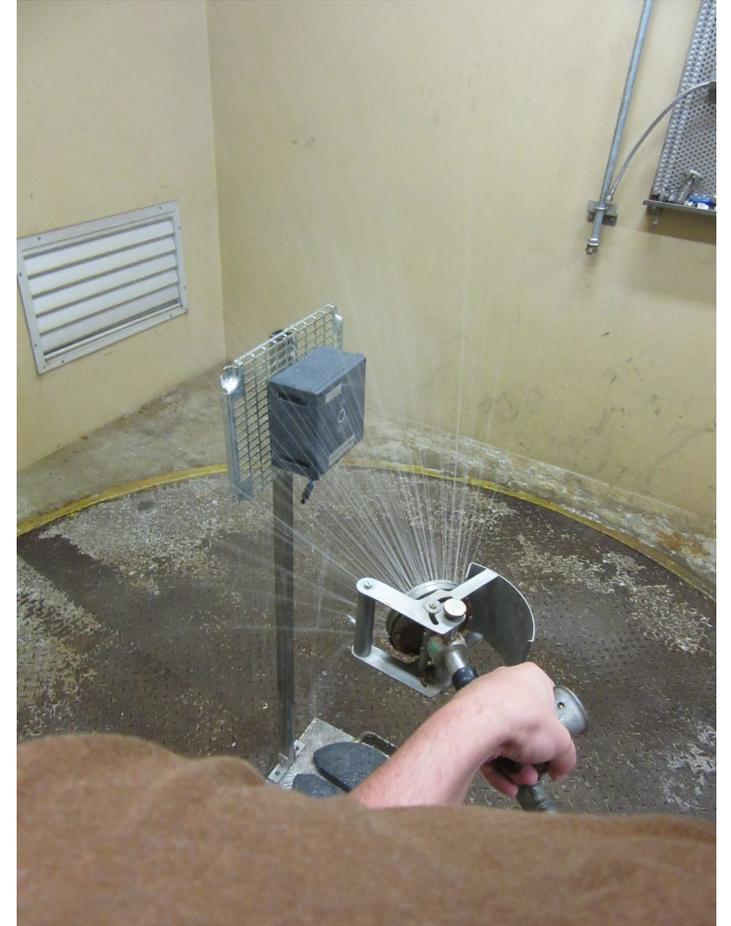
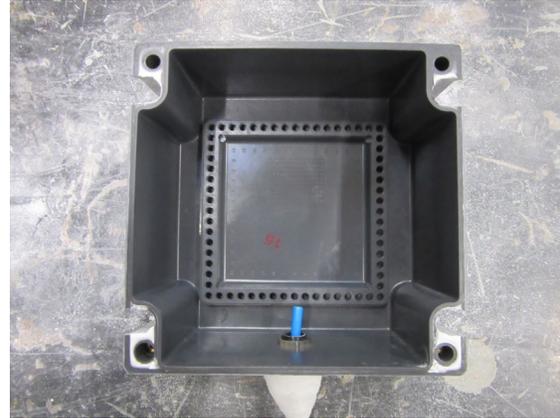
# Les modes de protection des matériels



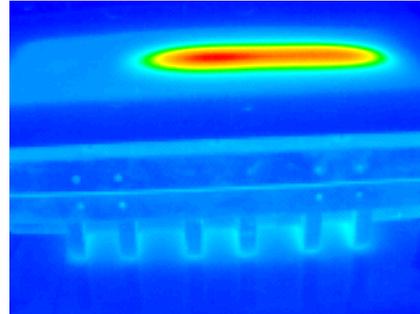
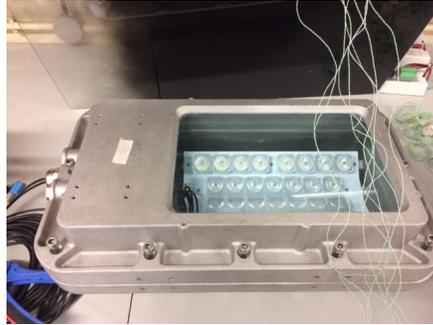
NORME IEC/EN		CODE		PRINCIPE
Gaz	Poussières	Gaz	Poussières	
60079-0	61241-0	-	-	Règles générales
60079-1		d	-	Enveloppe antidéflagrante
60079-2	61241-2	px/py/pz	pD	Suppression interne
60079-5		q	-	Remplissage pulvérulent
60079-6		o	-	Immersion dans l'huile
60079-7		e	-	Sécurité augmentée
60079-11	61241-11	ia/ib/ic	iaD/ibD	Sécurité intrinsèque
60079-15		nA	-	Non étincelant
		nL	-	Energie limitée
		nR	-	Respiration limitée
		nC	-	Dispositif scellé
60079-18	61241-18	ma/mb/mc	ma/mb/mc	Encapsulage
	60079-31	-	la/lb/lc	Protection par enveloppe



# Les essais



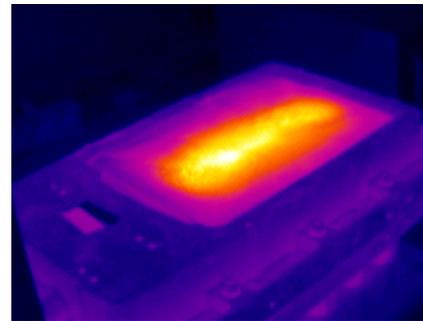
# Les essais



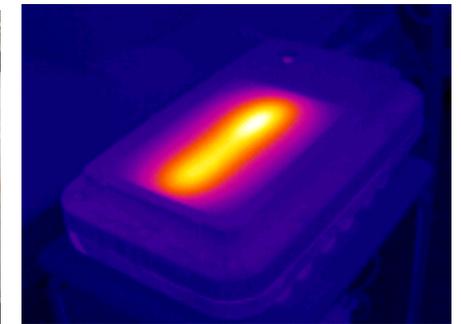
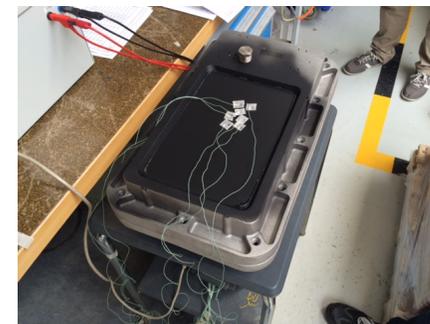
**talc**



**Noir de carbone 1,5 mm d'épaisseur**



**Peinture noire – double application**



**Température la plus haute mesurée,  
facilité de mise en œuvre**

# Les essais





# Le marquage



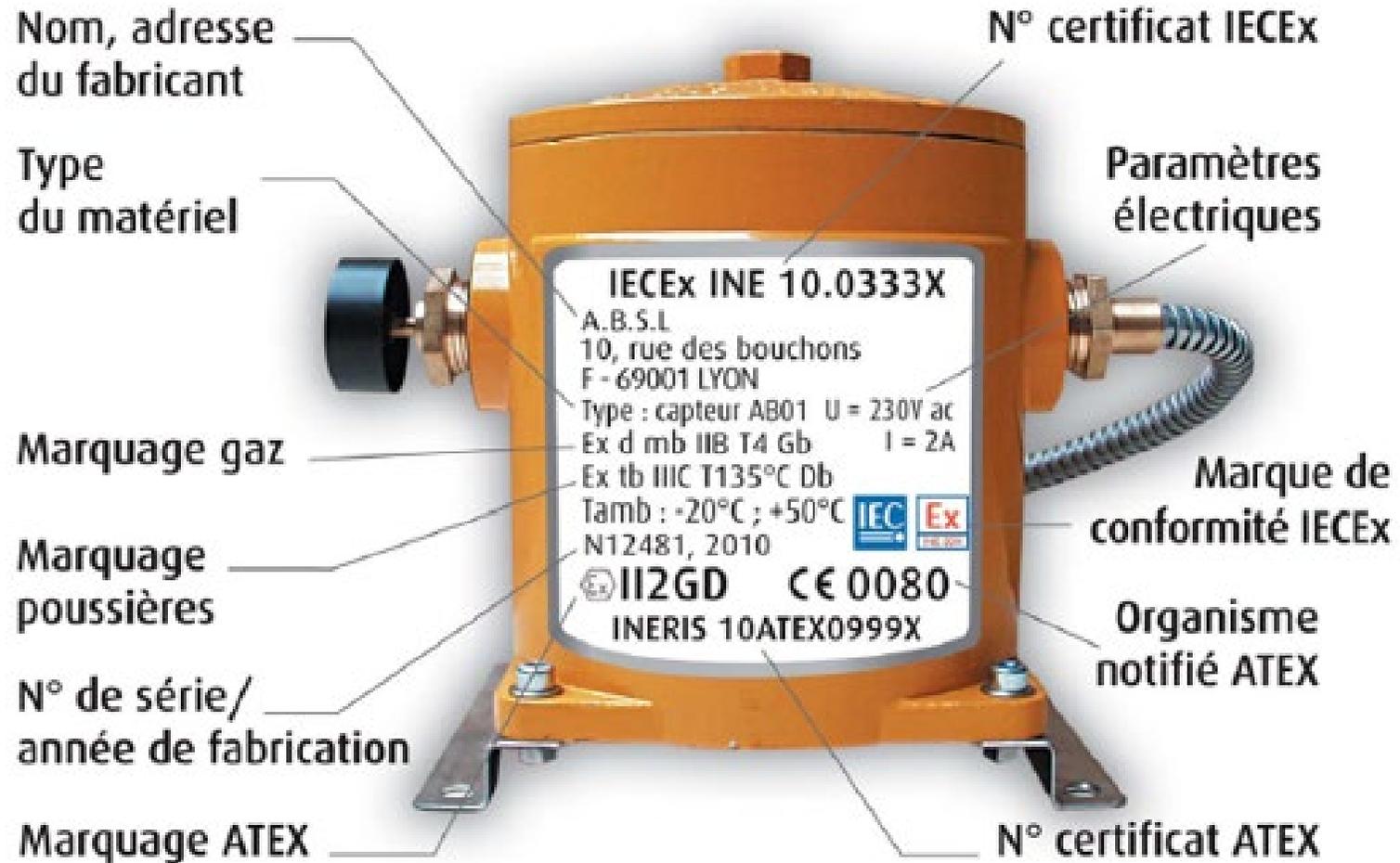
China export



Communauté Européenne



# Le marquage



# Au niveau international...



**IEC** **IECEX** INTERNATIONAL ELECTROTECHNICAL COMMISSION SYSTEM FOR CERTIFICATION TO STANDARDS RELATING TO EQUIPMENT FOR USE IN EXPLOSIVE ATMOSPHERES (IECEX SYSTEM)

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# Des questions ?



[thierry.delbaere@ineris.fr](mailto:thierry.delbaere@ineris.fr)