ExNB	Co-ordination of Notified Bodies Directive 2014/34/EU of the European Parliament and of the Council (ATEX) *Equipment and protective systems intended for use in potentially explosive atmosphere*	ExNB/CS/023

Status:	Step*5.2.2	Initial proposal by	IMQ ITALY	Date:	2019-02-07
	Step*5.2.3		IMQ ITALY		2020-06-02

Step refers to ExNB Rules

Requirements for batteries according to EN 1755:2015 Industrial Trucks - Safety requirements and verification - Supplementary requirements for operation in potentially explosive atmospheres

Authorised by Chairman:	Mr. Houeix	Date:	2020-08-06
Date of application:		Signature:	

Question:

Is it possible to use an industrial battery?

Background:

The standard provides specific requirements for electrical equipment including batteries.

Answer:

No.

Electrical equipment shall meet the equipment category of the truck in accordance with EN 60079-0, consequently, as in EN 1755:2015, battery and battery connectors shall meet the category of the truck and marked accordingly by the manufacturer.

Batteries intended to use in explosive atmosphere shall fulfil, other than industrial features, specific requirements to avoid the risk of ignition during normal operation (Category 3) and expected malfunctions (Category 2).

Batteries used in trucks are subjected to mechanical shock and vibration in normal operation and the risks due to hydrogen emission shall be considered.

Consequently, several tests like mechanical shock and vibration, to grant the integrity of the battery cells and ventilation test, to verify the maximum hydrogen concentration into the battery container, need to be performed as required in EN 60079-0, EN 60079-15 or EN 60079-7 and EN 60079-31 for Dust application.

Subject:	Directive, 2014/34/EU Article No.	
	Directive, ESR No.	
	Directive, Module Annex No.	
	Standard, No.	EN 1755:2015

This ExNB Interpretation/Clarification Sheet has the sole purpose of clarifying the application of the EN Standards and/or of the requirements of Directive 2014/34/EU and related documents. It does not in any way change the content of the standards and/or of the requirements. It remains valid until an official answer is received from the European Commission of the relevant standardization bodies.