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Question related to PPE Regulation

EN/prEN: EN ISO 12402-7:2020

Other:

Article:

Annex:

Clause: Table 2

Keywords: Strength testing of fabric

Question:

Due to a change in numbering of the exposures in Table 2 of EN ISO 12402-7:2020, there is now no requirement stated for tensile strength of woven fabric burst strength of knitted fabric after exposure 4 (see comparison table below for change between EN ISO 12402-7:2020 and previous version EN ISO 12402-7:2007+A1:2011):

Table 2 - Fabric				
Tensile testing of woven fabric	EN ISO 12402-7+A1:2011		EN ISO 12402-7:2020	
Exposure description:	Exposure #	Requirement	Exposure #	Requirement
70 h immersion in fuel B according to ASTM D471-16 or diesel fuel according to EN 590:2013/Amd 1:2017b	3.1)	Following exposure 3, the tensile strength shall be at least 260 N.	3)	Following exposure 3, the tensile strength shall be at least 260 N.
70 h immersion in 0,5 % detergent according to ISO 6330:2012	3.2)	Following exposure 3, the tensile strength shall be at least 260 N.	4)	No requirement stated.

Table 2 - Fabric				
Burst strength of knitted fabric	EN ISO 12402-7+A1:2011		EN ISO 12402-7:2020	
Exposure description:	Exposure #	Requirement	Exposure #	Requirement
70 h immersion in fuel B according to ASTM D471-16 or diesel fuel according to EN 590:2013/Amd 1:2017b	3.1)	Following exposure 3, the average of 10 samples shall retain at least 60 % of the strength determined following standard conditioning.	3)	Following exposure 3, the bursting strength shall be at least 480 kPa.
70 h immersion in 0,5 % detergent according to ISO 6330:2012	3.2)	Following exposure 3, the average of 10 samples shall retain at least 60 % of the strength determined following standard conditioning.	4)	No requirement stated.

What is the correct requirement for tensile strength (woven fabric) and burst strength (knitted fabrics) after exposure 4?

Solution:

In line with EN ISO 12402-7:2007+A1:2011, Table 2 for fabrics, the requirements of EN ISO 12402-7:2020, Table 2, for exposure 4 shall be the same as that stated for exposure 3, for each fabric type, as follows:

Woven fabric: Following exposure 4, the tensile strength shall be at least 260 N.

Knitted fabric: Following exposure 4, the bursting strength shall be at least 480 kPa.