

CO-ORDINATION OF NOTIFIED BODIES PPE Regulation 2016/425 RECOMMENDATION FOR USE

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* * *	RECOMMEND	ATION FOR USE	Language: E	
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Question related to P	PE Regulation	☑ EN/prEN: EN 14225-1:2017	Other:	
Article:	Annex:	Clause: 4.3, Table 1, Table C.1	VG8 RFU 08.041	
Key words:				
Thermal requirements for sur	face wetsuits			
Question:				
Surface wetsuits are classifie	d by the Commission as Category II PPE.			
specifically written for surfact wetsuits and lists those that proposed on the basis that succomponents and construction and safety criteria of the PPE		nethods and requirements of the standat, with exclusions of any diving specific and submersion in water shall also have all of thermal performance to comply with	ard EN 14225-1:2017 for diving testing/requirements. This was an evaluation that the materials, in the applicable essential health	
For thermal evaluation and te (surface only).	esting for surface wetsuits, it was deemed the	hat EN 14225-1:2017, Clause 4.3, Table	1 is applied at one bar absolute	
	a number of years, it is found that there a used for diving application, usually 3mm or limited.			
This does not mean that such surface wetsuits do not provide any protection, only that they provide a lower level of thermal protection, that may be suitable in warmer waters, on the basis that the user is carrying out activities on the surface and normally carrying out activities and a level of work that would also contribute to maintaining body heat, e.g. surfing, kayaking, SUP, and so a lower thermal performance may be acceptable.				
Is it therefore acceptable, to accept a lower thermal performance, for materials specifically used in the construction of surface wetsuits?				

Solution:

Yes.

As per RFU 08.041, a thermal measurement shall be made in accordance with EN 14225-1:2017, 5.4.3 at one bar absolute only.

Surface wetsuits that provide a lower thermal performance below the minimum criteria of a Class D diving wetsuit in accordance with EN 14225-1:2017, Clause 4.3 Table 1, may be categorised outside the thermal performance class of EN 14225-1:2017 applied for diving wetsuits.

A new Class 'E' is introduced, to be applied for surface wetsuits only and with a restriction that they are only for use in water greater than 22°C.

EN 14225-1:2017, Clause 4.3 – Thermal performance of suit materials

Table 1 — Thermal performance classes of surface wetsuit materials based on their immersed thermal resistance at 1 bar		
Thermal performance class	Immersed thermal resistance at surface (m ² ·K·W ⁻¹)	
A	≥ 0,15	
В	0,10 - 0,149	
С	0,07 – 0, 099	
D	0,05 – 0,069	
E (Applicable for surface wetsuits only)	0,03 - 0,049	

EN 14225-1:2017, Annex C - C.5 Wet suit thermal insulating material

Table C.1 — Suitability of thermal performance classes of suit materials for different water temperatures		
Thermal performance class of wet suit material	Water temperature ranges	
Class A	7 to 12°C	
Class B	10 to 18°C	
Class C	16 to 24 °C	
Class D	> 22°C	
E (Applicable for surface wetsuits only)	> 22°C	

Additional Marking Requirements and User Information for Surface Wetsuits:

A wetsuit intended for use as a surface wetsuit only, that meets any of the thermal Classes' A-E, proven by testing in accordance with EN14225-1:2017 Clause 5.4.3 at one bar only, shall have an additional Warning marked on the product as follows:

'This wetsuit is not a diving wetsuit and is only suitable for surface activities.'

Surface wetsuits that are 'Class E', shall have additional Warnings marked on the product as follows:

"This wetsuit does not provide the minimum level of thermal protection in accordance with EN14225-1:2017 and shall only be used as a surface wetsuit in water temperatures greater than 22 °C."

In addition, Surface wetsuits that are 'Class E', shall bear the table:

Thermal performance class of wet suit material	Water temperature ranges
Class A	7 to 12°C
Class B	10 to 18°C
Class C	16 to 24 °C
Class D	> 22°C
E (Applicable for surface wetsuits only)	> 22°C

In addition, the manufacturers user information shall also include information for the end user to be informed that when selecting a wetsuit to be used for surface activities, the temperatures stated are as general guidance, and the following factors must also be considered by the individual who will be wearing the wetsuit:

- users' morphology (body surface area and shape, body fat, sex) and physiology;
- users rate of work and activity being undertaken;
- the time and frequency exposed to immersion in water (constant immersion for activity i.e. open water swimming, or intermittent immersion i.e. paddle boarding/kayaking).