

ISO 15027-1:2026-04 (E)

Immersion suits - Part 1: Safety and performance requirements for constant wear suits

Contents		Page
Foreword		v
Introduction		vi
1	Scope	1
2	Normative references	1
3	Terms and definitions	2
4	Requirements and guidance	4
4.1	General	4
4.2	Basic health and ergonomic requirements	5
4.2.1	Innocuousness	5
4.2.2	Design	5
4.2.3	Comfort	5
4.3	Accessories	6
4.4	Gas or air inflation	6
4.5	Buddy lines	6
4.6	Conspicuity	6
4.6.1	Colour	6
4.6.2	Retro-reflective material	8
4.6.3	Emergency-position-indicating lights	8
4.7	Foam flotation material	8
4.8	Flammability	8
4.9	Temperature cycling	8
4.10	Water ingress	8
4.11	Thermal protection in water	8
4.12	Performance requirements	9
4.12.1	Donning	9
4.12.2	Walking	9
4.12.3	Climbing	10
4.12.4	Dexterity and mobility	10
4.12.5	Hand protection	10
4.12.6	Jump test	10
4.12.7	Secondary donning	10
4.12.8	Swim and boarding	10
4.12.9	Flotation and righting	10
4.12.10	Field of vision	11
4.12.11	Helicopter escape	11
4.13	Requirements on materials, fabrics and components	11
4.13.1	Fuel resistance	11
4.13.2	Resistance to illumination	11
4.13.3	Tensile strength of seams	11
4.13.4	Coated fabrics	11
4.13.5	Other fabrics	12
4.13.6	Metal components	12
4.14	Strength	12
5	Marking	12
6	Information supplied by the manufacturer	13

7	Consumer information at point of sale	14
7.1	Data list.....	14
7.2	Consumer information label.....	15
Annex A	(informative) Information for manufacturers, users, regulators and industrial inspectors about immersion suits on the application of thermal protection times relevant to the ISO 15027 series	16
Bibliography	19