

# DIN EN 1486:2008-04 (English)

## Protective clothing for fire-fighters - Test methods and requirements for reflective clothing for specialised fire-fighting

---

<b>Contents</b>		<b>Page</b>
Foreword .....		4
Introduction .....		5
1	Scope .....	6
2	Normative references .....	6
3	Terms and definitions .....	8
4	General requirements .....	9
4.1	Clothing ensemble .....	9
4.2	Clothing .....	10
4.2.1	General .....	10
4.2.2	Pockets .....	10
4.2.3	Size designation .....	10
4.3	Head protection .....	10
4.3.1	General .....	10
4.3.2	Screen .....	11
4.4	Hand protection .....	12
4.5	Overboots .....	12
5	Sampling, pre-treatment, ageing .....	12
5.1	Sampling .....	12
5.2	Pre-treatment .....	13
5.2.1	General .....	13
5.2.2	Cleaning .....	13
5.2.3	Mechanical pre-treatment .....	13
5.3	Ageing .....	13
6	Thermal requirements .....	13
6.1	Limited flame spread .....	13
6.2	Heat transfer (radiant heat) .....	13
6.3	Heat transfer (convective heat) .....	14
6.4	Contact heat .....	14
6.5	Heat resistance .....	14
7	Mechanical requirements .....	14
7.1	Dimensional change .....	14
7.2	Tensile strength .....	14
7.3	Burst strength .....	14
7.4	Tear strength .....	15
7.5	Seam strength .....	15
8	Other requirements .....	15
8.1	Surface wetting .....	15
8.2	Whole Garment Testing (optional) .....	15
9	Marking .....	15
10	Information supplied by the manufacturer .....	16

<b>Annex A (normative) Mechanical pre-treatment for metallised materials .....</b>	<b>18</b>
<b>A.1 Principle .....</b>	<b>18</b>
<b>A.2 Sampling .....</b>	<b>18</b>
<b>A.3 Apparatus .....</b>	<b>18</b>
<b>A.4 Procedure .....</b>	<b>18</b>
<b>Annex B (informative) Warning - flame engulfment .....</b>	<b>20</b>
<b>Annex C (informative) Guidelines for clothing design .....</b>	<b>21</b>
<b>Annex D (informative) Checking of basic ergonomic features of protective clothing - practical performance tests .....</b>	<b>22</b>
<b>Annex E .....</b>	<b>24</b>
<b>Annex F (informative) Significant technical changes between this document and the previous Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 89/686/EEC .....</b>	<b>27</b>
<b>Bibliography .....</b>	<b>29</b>