

Impact of Washing Conditions on the Performance of Motorcycle Protective Garments

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Table S1. Reference detergent 2 - IEC reference detergent A. BS EN ISO6330:2001.

Composition	Reference Detergent 2 with perborate %	Reference Detergent 2 with percarbonate %
Linear sodium alkyl benzene sulfonate	8,8 (±0,5)	9,4 (±0,5)
Ethoxylated fatty alcohol C _{12/14} (7EO)	4,7 (±0,3)	5,0 (±0,3)
Sodium soap (tallow soap)	3,2 (±0,2)	3,4 (±0,2)
Foam-inhibitor concentrate (12 % silicon on inorganic carrier)	3,9 (±0,3)	4,1 (±0,3)
Sodium aluminium silicate zeolite 4A (80 % active substance)	28,3 (±1,0)	30,1 (±1,1)
Sodium carbonate	11,6 (±1,0)	12,4 (±1,1)
Sodium salt of a copolymer from acrylic and maleic acid (granulate)	2,4 (±0,2)	2,6 (±0,2)
Sodium silicate (SiO ₂ :Na ₂ O = 3,3:1)	3,0 (±0,2)	3,2 (±0,2)
Carboxymethylcellulose	1,2 (±0,1)	1,3 (±0,1)
Phosphonate (DEQUEST 2066, 25 % active acid)	2,8 (±0,2)	3,0 (±0,2)
Optical whitener for cotton (stilbene type)	0,2 (±0,02)	0,2 (±0,02)
Sodium sulfate	6,5 (±0,5)	6,9 (±0,5)
Protease (Savinase 8,0)	0,4 (±0,04)	0,4 (±0,04)
Sodium perborate tetrahydrate (active oxygen 10,00 % – 10,40 %) (as a separate addition)	20,0 (±0,1)	—
Sodium percarbonate (as separate addition)	—	15,0 (±0,1)
Tetra-acetylenediamine (active content 90,0 % – 94,0 %) (as a separate addition)	3,0 (±0,1)	3,0 (±0,1)
Total	100,0	100,0

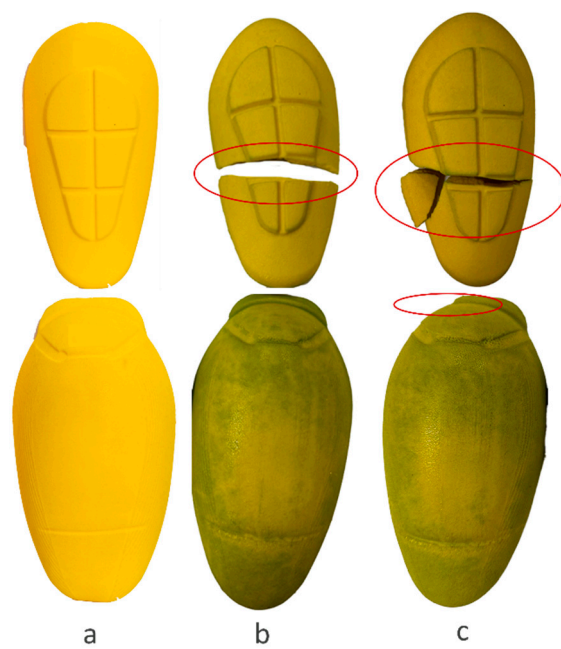


Figure S1. Comparison of the impact protectors of Vdenim in the condition of new (a), after 3 (b) and 6 (c) hot wash and tumble dry cycles.