



**NOTES**

Reference document: WHO Rapid Advice guideline for Personal Protective Equipment, published 31 October 2014

[http://apps.who.int/iris/bitstream/10665/137410/1/WHO\\_EVD\\_Guidance\\_PPE\\_14.1\\_eng.pdf](http://apps.who.int/iris/bitstream/10665/137410/1/WHO_EVD_Guidance_PPE_14.1_eng.pdf)

The information found in this document is publically available from the manufacturers.

This list is not exhaustive and is limited to coveralls tested for:

- resistance to blood penetration (ISO 16603) or blood penetration with virus (ISO 16604)

- whole suit performance of type 6, 5 or 4 (reference standards EN 14126, and EN 13034, EN ISO 13982-1-2 or EN 14605)

Other existing brands and models may comply with the minimum requirements of the WHO Rapid Advice guideline for Personal Protective Equipment

		COVERALLS - currently available on the market (alphabetical order), Type 6, 5 and 4 (EN 14126)								
		BRAND	3M		DuPont	Honeywell	MICROGARD		UVEX	
		MODEL TYPE	4545	4565	Classic Xpert (EU)	Mutex 2	2000	2000 TS plus	2500	uvex 4B
Biohazard performance	Test Title	WHO Rapid Advice Guideline for PPE								
	Resistance to blood penetration*	Option 1: minimum ISO 16603 Class 3	3	6	3	conform/no class	6	6	6	6
	Resistance to blood penetration with virus*	Option 1: minimum ISO 16604 Class 2	0	0	no class	6	6	6	6	6
Other performance criteria										
physical performance	Tensile strength*	ISO 13934-1 (MD/CD)	1	1	2	2	1	1	2	1
	Tear Resistance*	EN ISO 9073-4	1	1	1	2/3	1	1	2	1
	Puncture resistance*	EN 863	1	1	2	2	1	1	2	1
	Abrasion resistance*	EN 530 Method 2	1	1	2	6	2	2	2	2
	Basis weight		49 gsm	49 gsm	41 gsm	69 gsm	63 gsm	63 gsm	65 gsm	
Whole suit perform	Seam strength*	EN ISO 13935-2	2	2	3	3	3	2		2
	Whole suit performance*	EN 14126	Type 5/6 (4545 model)	Type 4 (4565 model)	Type 5B/6B (Classic Xpert mdl)	5/6	Type 5B and 6B (Standard )	Type 4B (Standard and TS Plus mdl)	Type 4B (Standard and Plus models)	4B

Green shaded cells indicate acceptable according to the WHO Rap  
 Yellow shaded cells inicate missing information

\* higher is better  
 \*\* lower is better  
 gsm grams per square meter  
 MD machine direction  
 CD cross direction