

# Minimum requirements for personal protective equipment (PPE) in the various treatment phases

Simplified illustration, recommendation



	Protective equipment	Standard and performance level	BVL guideline 2020, chapter:	Mixing / filling	Spreading plant protection products (PPP)				Cleaning	Example items		
				undiluted PPP	Spraying downwards (field crops)		Spraying upwards (vertical crops)					
					with cab <sup>4</sup>	without cab	with cab <sup>4</sup>	without cab				
	Protective reusable gloves (nitrile)	ISO 18889 G2 or EN ISO 374-1 Type A <sup>1</sup>	5.1.1 Level G2							Phytosanitary Glove Vinex (29816-29818, 29825)		
	Disposable gloves Nitrile (follow-up work)	ISO 18889 G1 or EN ISO 374-1 Type B	5.1.2 Level G1 and GR		when exiting <sup>2</sup>	when exiting <sup>2</sup>		or		Nitrile Classic (15370, 15372-15374, 15389), Nitrile Top (15390-15394), Nitrile Long Black (15320-15324), Nitrile Premium (15325-15329) Nitrile Profi (15380-15384)		
	Work clothing	EN ISO 27065 C1 or C2	2 Work clothing	in combination				in combination		Phytosanitary Protection Coverall Aegis protection level C2 (34366-34370)		
	Long-sleeved apron <sup>2</sup>	ISO 27065 C3 EN 14605 Type 3 or 4	4 Sleeved Aprons		when leaving the cabin during use				or	Long-Sleeved Pesticide Apron protection level C3 (15619)		
	Chemical Protective Suit (spray-proof)	EN ISO 27065 C3 or EN 14605 Type 3 or 4 DIN 32781	3 Personal protective equipment	or	when exiting (individual cases)		when exiting (individual cases)	or		Phytosanitary Protection Coverall Type 4 (34354-34356)		
	Goggles / face protection	EN 16635	6 Eye protection / Face protection		prescribed in individual cases		prescribed in individual cases			Wide vision Goggles (34521) Goggles (34520)		
	Particle mask Half mask	EN 143 (P2) EN 14387 <sup>3</sup>	7 Respiratory protection		prescribed in individual cases						Half Mask Vulcano (34535)	

Other elements of the BVL guideline: Chapter 8 Head Protection (e.g. hoods), 9 Foot protection (e.g. safety boots as per ISO 20345), 10 Use of tractor cabins

<sup>1</sup> and other requirements, <sup>2</sup> to avoid contamination store outside the cabin, <sup>3</sup> for some PPP, specific respiratory protection required, e.g. AX filter, <sup>4</sup> in cabins with filter category 3 or 4, or in cabins that meet certain requirements (filter category 2\*), eye and skin protection can be waived. Respirators can NOT be waived.