Technical H&ESD Specifications

3MTM VersafloTM M-Series Headgear Assemblies

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Replaces all previously published Technical Specifications for these products. Valid until superseded.

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Model Number	M-105	M-107	M-305	M-307	M-405	M-407
Style	Loose fitting facepiece	Loose fitting facepiece	Loose fitting facepiece	Loose fitting facepiece	Helmet	Helmet
Air sources approved with	-GVP PAPR -Breathe Easy PAPR -TR-300 PAPR -V-Series Supplied Air Valves	-GVP PAPR -Breathe Easy PAPR -TR-300 PAPR -V-Series Supplied Air Valves	-GVP PAPR -Breathe Easy PAPR -TR-300 PAPR -V-Series Supplied Air Valves	-GVP PAPR -Breathe Easy PAPR -TR-300 PAPR -V-Series Supplied Air Valves	-GVP PAPR -Breathe Easy PAPR -TR-300 PAPR -V-Series Supplied Air Valves	-GVP PAPR -Breathe Easy PAPR -TR-300 PAPR -V-Series Supplied Air Valves
US OSHA Assigned Protection Factor ¹	25	25	25	25	1000	1000
Additional US Certification – Eye and Face Protection	ANSI Z87.1- 2010 (Z87+)					
Additional US Certification – Head Protection	None	None	ANSI Z89.1- 2003 (Type 1, Class G)			
Visor	M-925 standard visor	M-927 premium visor	M-925 standard visor	M-927 premium visor	M-925 standard visor	M-927 premium visor
Visor Material	Polycarbonate	Coated Polycarbonate (silicone hard coat)	Polycarbonate	Coated Polycarbonate (silicone hard coat)	Polycarbonate	Coated Polycarbonate (silicone hard coat)
Visor Thickness (approx.)	Center 2.3 mm (0.09 in) Edge 1.3 mm (0.05 in)	Center 2.3 mm (0.09 in) Edge 1.3 mm (0.05 in)	<u>Center</u> 2.3 mm (0.09 in) <u>Edge</u> 1.3 mm (0.05 in)	Center 2.3 mm (0.09 in) Edge 1.3 mm (0.05 in)	Center 2.3 mm (0.09 in) Edge 1.3 mm (0.05 in)	Center 2.3 mm (0.09 in) Edge 1.3 mm (0.05 in)

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Model Number	M-105	M-107	M-305	M-307	M-405	M-407			
Visor Area	426 sq. cm	426 sq. cm	426 sq. cm	426 sq. cm	426 sq. cm	426 sq. cm			
(approx.)	(66 sq. in)	(66 sq. in)	(66 sq. in)	(66 sq. in)	(66 sq. in) 51-64 cm	(66 sq. in)			
Maximum Size Range ² (head circumference)	51-64 cm (U.S. hat sizes 6 3/8 to 8)	51-64 cm (U.S. hat sizes 6 3/8 to 8)	51-64 cm (U.S. hat sizes 6 3/8 to 8)	51-64 cm (U.S. hat sizes 6 3/8 to 8)	(U.S. hat sizes 6 3/8 to 8)	51-64 cm (U.S. hat sizes 6 3/8 to 8)			
Faceseal or Shroud	M-935 standard faceseal	M-937 flame resistant faceseal	M-935 standard faceseal	M-937 flame resistant faceseal	M-445 standard outer shroud; M-444 inner collar	M-447 flame resistant outer shroud; M- 444 inner collar			
Faceseal or Shroud Material	Fabric Polypropylene coated nonwoven poly- Propylene	Fabric Flame retardant coated polyester	Fabric Polypropylene coated nonwoven poly- Propylene	Fabric Flame retardant coated polyester	Outer shroud: Polypropylene coated nonwoven poly- Propylene. Inner collar: Polyurethane coated knitted polyamide	Outer shroud: Nomex® IIIA fabric* Inner collar: Polyurethane coated knitted polyamide			
Approx. Weight ³ g (lbs.)	613 (1.4)	620 (1.4)	850 (1.9)	857 (1.9)	1049 (2.3)	1190 (2.5)			
Headgear Shell Material	HDPE (High density polyethylene)	HDPE (High density polyethylene)	PC/PBT alloy (polycarbonate/ polybutylene terephthalate) Note: This is the same material as the L-Series Headgear Shells	PC/PBT alloy (polycarbonate/ polybutylene terephthalate) Note: This is the same material as the L-Series Headgear Shells	PC/PBT alloy (polycarbonate/ polybutylene terephthalate) Note: This is the same material as the L-Series Headgear Shells	PC/PBT alloy (polycarbonate/ polybutylene terephthalate) Note: This is the same material as the L-Series Headgear Shells			
Headband Material	M-150 TPE (Thermoplastic elastomer)	M-150 TPE (Thermoplastic elastomer)	M-350 TPE (Thermoplastic elastomer)	M-350 TPE (Thermoplastic elastomer)	M-350 TPE (Thermoplastic elastomer)	M-350 TPE (Thermoplastic elastomer)			
Visor Frame		PC/PBT	alloy (polycarbonate	e/ polybutylene terep	ohthalate)				
Material Visor Gasket Material (M- 921)	TPE (Thermoplastic elastomer)								
Operating Temperature Range	-10° C to 55° C (14 ° F to 130° F)								
Storage Temperature Range	-30° C to 50° C (-22° F to 122° F) <i>Note</i> : 4° C to 35° C (40° F to 95° F) suggested storage temperature range if product will be stored for an extended period before first use								
Natural Rubber Latex	Does not contain components made from natural rubber latex								
Suggested Shelf Life	3 year suggested shelf life for all models when stored in original packaging and according to the recommended storage conditions. User must inspect headgear prior to each use to determine usability. Consult M-Series Headgear <i>User Instructions</i> for more information.								
Noise Level ⁴	Less than 80 decibels A-Scale (dBA)								

Foot Notes

- $1\,$ 3MTM supports an assigned protection factor of 1000 for the M-400 Series Helmet which is consistent with OSHA's APF defined in 29 CFR 1910.134. Contact 3M Technical Service for supporting data. In Canada, follow CSA Z94.4 or the requirements of the authority having jurisdiction in your area.
- 2 Optional size reducing ratchet comfort pad (M-956) is available to improve fit stability for smaller head sizes.
- **3** Weight is complete assembly.
- **4** Excluding external noise.

These components, when used as part of a respirator system help reduce exposure to certain airborne contaminants. Use of 3MTM Powered and Supplied Air Respirators by untrained or unqualified persons, or use not in accordance with the instructions, **may adversely affect product performance and result in sickness or death.** Powered and supplied air respirators are to be used only by qualified persons who are properly trained in their use and maintenance and only in accordance with their operating and maintenance manuals. Each person using these products must first read and understand the operator's manual.