



Welding Hazards Respiratory Protection Selection Guide

To help you select the correct 3M™ Respirator, please use the table below which has been designed to highlight a selection of the hazards you may encounter and the suggested 3M respirator.*

3M Respirators		General Workshop	Small Area / Close Proximity	Confined Space	9925 / 9928 ●	Airstream™ Respirator AH9, AH11	Dustmaster™ Respirator DM6	Dustmaster™ Respirator DM16	Dustmaster™ Respirator DM167	Dustmaster™ Respirator DM9, DM11	Breathe Easy™ Plus Respirator BE9, BE11**	Breathe Easy™ Plus Respirator BE16**	Breathe Easy™ Plus Respirator BE167**	Airstream™ Respirator AH18, AH20***	S-200 Airfied Respirator fitted to 3M mask***●	CABA Δ.#	3M™ Flowstream™ regulator with 3M™ QRS headtop ***.#	3M™ Vortex cooler or Vortemp™ heater + 3M QRS headtop ***.#
Process	Metal																	
MMA	Mild Steel	◆																
MMA	Mild Steel		◆															
MMA	Stainless Steel/Aluminium/Copper Galvanised Zinc /Cadmium Plate	◆																
MMA	Stainless Steel/Aluminium/Copper Galvanised Zinc /Cadmium Plate		◆															
MIG/MAG	Mild Steel	◆																
MIG/MAG	Mild Steel		◆															
MIG/MAG	Stainless Steel/Aluminium/Copper Galvanised Zinc /Cadmium Plate	◆																
MIG/MAG	Stainless Steel/Aluminium/Copper Galvanised Zinc /Cadmium Plate		◆															
Flux Core	Mild Steel	◆																
Flux Core	Mild Steel		◆															
Flux Core	Stainless Steel/Aluminium/Copper Galvanised Zinc /Cadmium Plate	◆																
Flux Core	Stainless Steel/Aluminium/Copper Galvanised Zinc /Cadmium Plate		◆															
TIG	Any Metal	◆																
TIG	Any Metal		◆															
Arc air gouging	Any Metal	◆																
Arc air gouging	Any Metal		◆															
Gas Welding & Cutting	Any Metal	◆	◆															
Any Process	Any with non leaded paint	◆	◆															
Any Process	Leaded paint	◆																
Any Process	Leaded paint		◆															
Any Process	Any Metal			◆														

■ Indicates suitable level of respiratory protection.
 General Workshop = An area where there is low potential for fume and gas build up. Small Area/Close Proximity = Potential for build up of high level of fume and gas and adequate ventilation is essential. Confined Space = Potential for oxygen deficiency. (less than 19.5% by volume – 3M definition).
N.B. When working with degreasing agents please ensure the materials to be welded are dry and free from solvents. When Oxides of Nitrogen are above the Occupational Exposure Limit (OEL) then supplied air respiratory protection must be used.
 * This guide is only an outline. It is designed to help focus on the most appropriate respirators in the 3M range for particular applications. It should not be used as the only means of selecting a respirator. Details regarding performance and limitations are set out on the respirator packaging and fact sheets.
 *** A range of filters is available for these respirators. Please contact 3M for advice on appropriate selection.
 ... These respirators are constant flow airfied respirators.
 ● These respirators will also require a welding shield.
 Δ CABA = Compressed Air (includes positive pressure airline and SCBA)
 # QRS = Quick Release Swivel