

Material to be welded	Welding method	Ventilation conditions of your working environment			
		Good environment, with forced ventilation	Limited ventilation	Restricted space	Classified as IDLH
Aluminium	MIG	P	P / P + ABE	S	Powered and supplied air respirators must never be used in atmospheres Immediately Dangerous to Life or Health (IDLH). Always consult your Safety Engineer.
	TIG	P	P / P + ABE	S	
	MMA (stick)	P	P / P + ABE	S	
Stainless steel	MIG	P	P / P + ABE	S	
	TIG	P	P / P + ABE	S	
	MMA (stick)	P	P / P + ABE	S	
	PLASMA (Welding and Cutting)	P	P + ABE / S	S	
Steel not coated or painted	MIG/MAG	P	P	S	
	STICK WELDING	P	P	S	
	PLASMA (Welding and Cutting)	P	P / S	S	
Steel painted (lead based paints)	MIG/MAG	P	P	S	
	MMA (stick)	P	P	S	
	PLASMA (Welding and Cutting)	P	P / S	S	
Steel galvanised	MIG/MAG	P	P	S	
	MMA (stick)	P	P	S	
	PLASMA (Welding and Cutting)	P	P / S	S	
Steel coated with 2-component paints or insulated with 2-part polyurethanes (risk of isocyanates)	MIG/MAG	S	S	S	
	MMA (stick)	S	S	S	
	PLASMA (Welding and Cutting)	S	S	S	
Material cleaned with trichloroethylene	MIG	S	S	S	
	TIG	S	S	S	
	MMA (stick)	S	S	S	
	PLASMA (Welding and Cutting)	S	S	S	

3M accepts no liability for the incorrect choice of respiratory protective equipment. This chart 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 user instructions.