



Respiratory Protection for Welding		Particulate Respirators For up to 10x applicable exposure limits		Welding Respirators For up to 10x applicable exposure limits		
						
Contaminant/ Application	Potential Health Effects from Overexposure ^{1,2}	8210	8511	8515	8512/ 8212	8514/ 8214
Particles						
General Dust	Depends on contaminants, includes respiratory irritation	■	■	■	■	■
Metal Fume						
Hexavalent Chromium	Lung cancer, asthma and damage to the nasal epithelia and skin			■	■	■
Steel/Manganese Alloys	Pneumoconiosis, Siderosis, Central Nervous System effects			■	■	■
Stainless Steel	Pneumoconiosis, kidney effects, lung irritation, cancer			■	■	■
Aluminum	Respiratory irritation (due to ozone)			■	■	■
Galvanized Steel	Metal Fume Fever			■	■	■
Cadmium	Metal Fume Fever, respiratory irritation, lung cancer, kidney effects					
Lead	Central Nervous System effects, systemic poisoning					
Gases				Respirator recommendation		
Ozone	Respiratory irritation, lung congestion, bronchitis, headache, dry throat					■ ⁵
Carbon Monoxide	Anoxia, Central Nervous System effects					
Carbon Dioxide	Asphyxiation					
Phosgene	Respiratory irritation, anoxia, pulmonary edema					
Oxides of Nitrogen	Respiratory irritation and edema					

1. Documentation of TLVS and BEIS, American Conference of Governmental Industrial Hygienists, 7th. edition, 2004.

2. Clayton, G.D., Clayton, F.E. Patty's Industrial Hygiene and Toxicology. Vol II New York. John Wiley and Sons Inc., 1994.





3. Dual-mode head harness design adjusts easily so that the user has the option of wearing the respirator in either traditional or drop-down mode.

4. Other facepieces are available. Please see our website 3M.com/OccSafety, Speedglas.com or call 1-800-896-4223.

5. 3M recommended for applications where ozone and nuisance level organic vapors may be present. 3M recommended for ozone protection up to 10 times the OSHA PEL or applicable government occupational exposure limits, whichever is lower. Not NIOSH approved for use against ozone. 3M recommended for relief from nuisance levels of organic vapors. Nuisance level organic vapors refer to concentrations not exceeding the OSHA PEL, or applicable government occupational exposure limits whichever is lower. Do not use when concentrations of contaminants are immediately dangerous to life and health or are unknown.

WARNING! See warnings on inside back cover.

3M Automotive Aftermarket Division (AAD) Product Numbers are found in blue type on select products

<p style="text-align: center;">Air Purifying/PAPR/SAR Elastomeric Facepiece Respirators</p> <p style="text-align: center;">Half Facepiece Respirators For up to 10x applicable exposure limits</p>  <p>6100, 6200, 6300 6100DD, 6200DD, 6300DD 7501, 7502, 7503³</p>	<p style="text-align: center;">Full Facepiece Respirators For up to 50x applicable exposure limits</p>  <p>7800S (S,M,L)*</p>	<p style="text-align: center;">PAPR Loose-Fitting Facepiece Respirators</p> <p style="text-align: center;">For up to 25x applicable exposure limits</p> 	<p style="text-align: center;">Airline Systems</p> <p style="text-align: center;">For up to 25x applicable exposure limits</p> 	
2091 P100	2097 P100	7093 P100	3M™ Speedglas™ with Adflo™ System ⁴	3M™ Fresh-air II Supplied Air System
■	■	■	■	■
■	■	■	■	■
■	■	■	■	■
■	■	■	■	■
■	■	■	■	■
■	■	■	■	■
■	■	■	■	■
ed when contaminants are above regulatory limits				
	■ ⁵			■
				■
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				■
				■

Are your workers exposed to Hexavalent Chromium?

On February 28, 2006 the Occupational Safety and Health Administration (OSHA) published the final Hexavalent Chromium Cr(VI) Standard. The new permissible exposure limit (PEL) for Cr(VI) is 5 µg/m³ (micrograms per cubic meter) as an eight-hour time-weighted average (TWA). The standard requires the respiratory protection program, including respirator selection, to follow OSHA 1910.134 requirements. Visit hexchrom.com for more information; or for a complete copy of the standard please refer to OSHA's website at osha.gov.