

**ARE YOU READY
FOR THE CCOHS & OSHA SILICA
DUST REGULATIONS?**



**RESPIRATOR PRODUCTS
GRADUATED PROTECTION PLAN**

SUMMARY

- September 23, 2017: Enforcement for CONSTRUCTION (was June 23, 2017)
- Any company that cuts, chips or saws silica containing materials, like concrete or stone must adhere to the new OSHA regulations
- It features a lower limit for worker exposure to harmful respirable crystalline silica dust as well as more stringent measures to monitor compliance
- OSHA estimates that the implementation of this rule will save more than 600 lives a year and prevent more than 900 cases of silicosis
- Will save over \$8 billion in associated costs
- The construction industry has approximately 2,000,000 workers exposed to respirable crystalline silica in over 600,000 workplaces
- OSHA estimates that more than **840,000** of these workers are exposed to silica levels that exceed the new permissible exposure levels (PEL) of 0.05 mg/m³ over an 8 TWA
- There is a misunderstanding that if the user implements suppression measures they will not be required to use respiratory protection... This is incorrect!



RESPIRATOR PRODUCTS

OSHA REQUIREMENTS

- 0.05 - 0.5 mg/m³ - Use Half mask with either an N95, R95 or P95 Filter
- 0.5 - 2.5 mg/m³ - Use Full Face mask with either an N100, R100 or P100 Filter
- * Exposure level is based on 8 hour TWA

DENTEC SAFETY LEVEL 1 OPTION

CAUTION

Although disposable respirators meet the OSHA requirements for respiratory protection where a half facepiece is needed, the challenge with any disposable respirator is the ability to conduct a proper fit check when entering the hazardous environment throughout the day, once a fit test has been conducted. When a half facepiece can be worn, we recommend the use of a reusable rubber style half mask with either N95 or P100 cartridges. It is safer because it provides an airtight seal and can be fit checked each time you don the respirator. It is also more comfortable than using any disposable respirator and more economical to use.

COMFORT[®] EASE

DISPOSABLE RESPIRATOR SOLUTIONS

AD2N95 SERIES - CONE SHAPE STYLE



- N95 rating
- Lightweight
- Universal fitting
- Exhalation valve model exhausts hot, moist air reducing heat build up and improving user comfort
- Crush resistant shell design increases product life and improves comfort
- Elastic straps sonically welded to the mask and no staples
- Latex Free

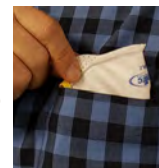
AD5N95 SERIES - CUP SHAPE FLATFOLD STYLE



- Same great features as the AD2N95 series

PLUS

- Individual adjustable aluminum nose clip provides an excellent fit and seal
- Foam cushion and adjustable nose clip ensure a secure and comfortable fit
- Reinforcing ribs provide additional shell strength reducing consumption
- One way exhalation valve on side reduces effort to move hot air out of the mask
- Top cover directs hot airflow downward, helps to reduce lens fogging
- Cup shape flat fold design provides the best of both mask styles. Cup shape provides excellent fitting capabilities. Flat fold feature allows the user to store the mask comfortably in a pocket.





RESPIRATOR PRODUCTS

OSHA REQUIREMENTS

- 0.05 - 0.5 mg/m³ - Use Half mask with either an N95, R95 or P95 Filter
- 0.5 - 2.5 mg/m³ - Use Full Face mask with either an N100, R100 or P100 Filter
- * Exposure level is based on 8 hour TWA

DENTEC SAFETY LEVEL 2 OPTION

Reusable half mask respirators allow the user to conduct fit checks easily*. This will ensure the user is able to prove a proper fit when entering the hazardous application throughout the day. A properly fitted Comfort-Air® respirator will provide an airtight seal.

* Based on the user following the manufacturer's instructions on fit check protocol

COMFORT-AIR®

REUSEABLE HALF MASK RESPIRATOR SOLUTIONS WITH N95 FILTERS



SELECT A MASK MATERIAL THAT FITS YOUR NEEDS & BUDGET

- All Comfort-Air® half masks offer low profile design that extends viewing range and fits under welding helmets & grinding shields.
- Large inhalation valves increase air intake reducing breathing resistance and increase user comfort.
- Unique exhalation valve diaphragm moves more hot air out of the mask fast and with little effort.
- Low profile design cartridges increases viewing range and fits under welding helmets & grinding shields.
- Saf-Twist cartridge mounting system allows the user to mount the cartridge in 3 different positions to extend viewing range and to help fit under welding helmets & grinding shields.
- Series 100 Silicone rubber is our premium half mask offering exception comfort and durability.
- Series 300 Thermoplastic provides excellent comfort, durability and value.
- Series 400 Elastomeric rubber provides good comfort and is considered a maintenance free style half mask.
- Filter assembly allows the user to attach an N95 filter to any of our masks providing a low profile solution and lightweight solution. Our most economical solution for offering a reusable respirator to meet OSHA's minimum respirator requirements when working in silica dust.





RESPIRATOR PRODUCTS

OSHA REQUIREMENTS

- 0.05 - 0.5 mg/m³ - Use Half mask with either an N95, R95 or P95 Filter
- 0.5 - 2.5 mg/m³ - Use Full Face mask with either an N100, R100 or P100 Filter
- * Exposure level is based on 8 hour TWA

DENTEC SAFETY LEVEL 3 OPTION

P100 filters provide additional protection against silica dust. Remembering the health hazards of long term exposure to silica dust, we recommend P100 level protection.

COMFORT[®] AIR



REUSEABLE HALF MASK RESPIRATOR SOLUTIONS WITH P100 OPTIONS



REUSEABLE FULL MASK RESPIRATOR SOLUTIONS WITH P100 OPTIONS



SELECT A MASK MATERIAL THAT FITS YOUR NEEDS & BUDGET

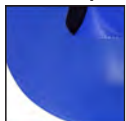
- All Comfort-Air[®] half masks offer low profile design that extends viewing range and fits under welding helmets & grinding shields.
- Large inhalation valves increase air intake reducing breathing resistance and increase user comfort.
- Unique exhalation valve diaphragm moves more hot air out of the mask fast and with little effort.
- Low profile design cartridges increases viewing range and fits under welding helmets & grinding shields.
- Saf-Twist cartridge mounting system allows the user to mount the cartridge in 3 different positions to extend viewing range and to help fit under welding helmets & grinding shields.
- Series 100 Silicone rubber is our premium half mask offering exception comfort and durability.
- Series 300 Thermoplastic provides excellent comfort, durability and value.
- Series 400 Elastomeric rubber provides good comfort and is considered a maintenance free style half mask.
- 130M full face mask is made from a special composite silicone rubber that provides incredible comfort and outstanding value.
- Diskit[®] P100 pancake style filter is an economical solution. The Diskit[®] is the only pancake style filter with a rigid, plastic frame providing additional durability. Low breathing resistance provides additional user comfort. Ultra thin and lightweight fits under grinding shields and welding helmets.
- LP0 P100 cartridge offers a low profile design that extends viewing range and fits under grinding shields and welding helmets. Our cartridge size is larger than most of the competition which extends filter life, reduces breathing resistance providing overall comfort and performance.





HALF FACEPIECE KEY SELLING POINTS

Textured "no-slip" Face Seal & large, flexible Rolled Sealing Edge
-Provides exceptional comfort & superior fit.



Swivel Retainers

-Generous 70° swivel allows natural fit without pressure points. Special clips hold strap, eliminating annoying strap tangles.

Extra Large Inhalation Valves

-Lower inhalation resistance & contributes to easier breathing.



Deep Chin Cup
-Gives a more secure universal fit.



Unique Low Fitting Mask
-Provides ample room for eyewear.

Low "Dead Air" Space
-Improves worker comfort from less re-breathing of exhaled air.

Multi-Position Cartridge Attachment
-#1 position is "sweptback" for maximum visibility. #2 & #3 change the cartridge positions for use under various PPE such as welding helmets & faceshields.



Unique Corrugated Exhalation Valve Diaphragm
-Only available on Dentec Safety's halfmask, this large diameter valve opens quickly and allows maximum exhalation of hot, humid air from the mask. Heat build-up is reduced and wearer comfort increased.



130M FULL FACEPIECE KEY SELLING POINTS

Universal Fit

-One size that fits most users. Provides a balanced low-pressure positive seal.

Inner Mask

-Reduces CO₂ build-up.
Easily removable to facilitate cleaning.

Anti-Fog Hard Coated Lens

-Simplifies maintenance & extends product life.
Provides optically correct wide angle viewing and is easily replaced.

**SPECIAL
COMPRESSION SILICONE**
-Provides exceptional comfort.

Quick Release Shielded Buckles
-Allows fast easy removal.

5 Point Head Harness

-Provides an even, comfortable fit with no slippage.


Optional Prescription Lens Insert
(44mm & 50mm eyesizes.)

-Convenient with quick installation.



Metal Speech Diaphragm
-Enables clear, high quality communications.

The dangers of silica dust are clear and proper respiratory protection for workers is a non-negotiable thanks to regulations put in place for Canada by the Canadian Centre for Occupational Health and Safety (CCOHS) and for the US by the Occupational Safety and Health Administration (OSHA). In Canada, the CCOHS is a great place to start for information regarding Silica Dust exposure limits. There are 14 jurisdictions that have their own Occupational Health and Safety legislation.










 CCOHS SILICA DUST EXPOSURE LIMITS		
Jurisdiction	Regulation	8 Hour Exposure
Federal	Canada Occupational Health and Safety Regulations	Use ACGIH TLVs Quartz and Cristobalite (respirable): 0.025 mg/m ³
British Columbia	Occupational Health and Safety Regulation Part 5 Chemical Agents and Biological Agents	Use ACGIH TLVs Quartz and Cristobalite (respirable): 0.025 mg/m ³
Alberta	Occupational Health and Safety Code 2009 Part 4 Chemical Hazards, Biological Hazards and Harmful Substances	Cristobalite (respirable): 0.025 mg/m ³ Quartz (respirable): 0.025 mg/m ³
Saskatchewan	The Occupational Health and Safety Regulations, 1996	Cristobalite (respirable): 0.05 mg/m ³ Quartz (respirable fraction): 0.05 mg/m ³ Tripoli, as quartz (respirable): 0.1 mg/m ³
Manitoba	Occupational Health and Safety Regulation	Use ACGIH TLVs Quartz and Cristobalite (respirable): 0.025 mg/m ³
Ontario	Regulation 833: Control of Exposure to Biological or Chemical Agents	Quartz/Tripoli (respirable): 0.10 mg/m ³ Cristobalite (respirable): 0.05 mg/m ³
Quebec	Regulation respecting occupational health and safety	Cristobalite: 0.05 mg/m ³ Quartz: 0.1 mg/m ³ Tridymite: 0.05 mg/m ³ Tripoli: 0.1 mg/m ³
New Brunswick	General Regulation	Use ACGIH TLVs Quartz and Cristobalite (respirable): 0.025 mg/m ³
Nova Scotia	Workplace Health and Safety Regulations	Use ACGIH TLVs Quartz and Cristobalite (respirable): 0.025 mg/m ³
Newfoundland and Labrador	Occupational Health and Safety Regulations, 2012	Use ACGIH TLVs Quartz and Cristobalite (respirable): 0.025 mg/m ³
P.E.I.	General Regulations	Use ACGIH TLVs Quartz and Cristobalite (respirable): 0.025 mg/m ³
Northwest Territories	Occupational Health and Safety Regulations	Cristobalite (respirable): 0.05 mg/m ³ Quartz (respirable): 0.05 mg/m ³ Tripoli, as quartz: 0.1 mg/m ³
Nunavut	Consolidation of Occupational Health and Safety Regulations	Cristobalite (respirable) : 0.05 mg/m ³ Quartz (respirable): 0.05 mg/m ³ Tripoli, as quartz: 0.1 mg/m ³
Yukon	Occupational Health Regulation	Quartz: 300 particles/mL Cristobalite: 150 particles/mL Tridymite: 150 particles/mL



OSHA SILICA DUST TABLE 1 RESPIRATOR GUIDELINES

Required respiratory
protection and minimum
assigned protection
factor (APF)

RESPIRATOR TYPE OPTIONS

Equipment/task	Engineering and work practice control methods	≤4 hours / shift	>4 hours / shift		
(ii) Handheld power saws (any blade diameter)	Use saw equipped with integrated water delivery system that continuously feeds water to the blade Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions:			APF 10 (N95 OR GREATER)	
	-When used outdoors	None	APF 10		
	-When used indoors or in an enclosed area	APF 10	APF 10		
(iv) Walk-behind saws	Use saw equipped with integrated water delivery system that continuously feeds water to the blade Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions:			APF 10 (N95 OR GREATER)	
	-When used outdoors	None	None		
	-When used indoors or in an enclosed area	APF 10	APF 10		
(viii) Dowel drilling rigs for concrete	For tasks performed outdoors only:			APF 10 (N95 OR GREATER)	
	Use shroud around drill bit with a dust collection system. Dust collector must have a filter with 99% or greater efficiency and a filter-cleaning mechanism Use a HEPA-filtered vacuum when cleaning holes	APF 10	APF 10		
(x) Jackhammers and handheld powered chipping tools	Use tool with water delivery system that supplies a continuous stream or spray of water at the point of impact:			APF 10 (N95 OR GREATER)	
	-When used outdoors	None	APF 10		
	-When used indoors or in an enclosed area	APF 10	APF 10		
	OR				
	Use tool equipped with commercially available shroud and dust collection system				
	Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions				
	Dust collector must provide the air flow recommended by the tool manufacturer, or greater, and have a filter with 99% or greater efficiency and a filter-cleaning mechanism:				
	-When used outdoors	None	APF 10		
	-When used indoors or in an enclosed area	APF 10	APF 10		
(xi) Handheld grinders for mortar removal (i.e., tuckpointing)	Use grinder equipped with commercially available shroud and dust collection system	APF 10	APF 25	APF 10 (N95 OR GREATER)	APF 25 (FULL FACE OFFERS APF 50) (N95 OR GREATER)
	Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions				
	Dust collector must provide 25 cubic feet per minute (cfm) or greater of airflow per inch of wheel diameter and have a filter with 99% or greater efficiency and a cyclonic pre-separator or filter-cleaning mechanism				
(xii) Handheld grinders for uses other than mortar removal	For tasks performed outdoors only:	None	None	APF 10 (N95 OR GREATER)	
	Use grinder equipped with integrated water delivery system that continuously feeds water to the grinding surface				
	Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions				
	OR				
	Use grinder equipped with commercially available shroud and dust collection system				
	Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions				
	Dust collector must provide 25 cubic feet per minute (cfm) or greater of airflow per inch of wheel diameter and have a filter with 99% or greater efficiency and a cyclonic pre-separator or filter-cleaning mechanism				
	-When used outdoors	None	None		
	-When used indoors or in an enclosed area	None	APF 10		





Toll Free: 1.888.533.6832




www.dentecsafety.com

COMFORT-AIR SERIES 100 HALF MASK






	Part No.	Size	DESCRIPTION
	100S00 100M00 100L00	Small Medium Large	Comfort-Air® Series 100 Silicone Rubber Facepiece Assembly
	1SDN5 1MDN5 1LDN5	Small Medium Large	Comfort-Air® 100 With N95 Filter Assembly Complete, Silicone Rubber (24/Box) APF 10
	1SDISKITP100ZAM 1MDISKITP100ZAM 1LDISKITP100ZAM	Small Medium Large	Comfort-Air® 100 With DISKIT® P100 Filter Assembly Complete, Silicone Rubber (24/Box) APF 10
	1SLP0ZAM 1MLP0ZAM 1LLP0ZAM	Small Medium Large	Comfort-Air® 100 With P100 Cartridge Assembly Complete, Silicone Rubber (24/Box) APF 10




COMFORT-AIR SERIES 300 HALF MASK

	Part No.	Size	DESCRIPTION
	300SM00 300ML00	S/M M/L	Comfort-Air® Series 300 Thermoplastic Rubber Facepiece Assembly
	3SMDN5 3MLDN5	S/M M/L	Comfort-Air® 300 With N95 Filter Assembly Complete, Thermoplastic Rubber (24/Box) APF 10
	3SMDISKITP100ZAM 3MLDISKITP100ZAM	S/M M/L	Comfort-Air® 300 With DISKIT® P100 Filter Assembly Complete, Thermoplastic Rubber (24/Box) APF 10
	3SMLP0ZAM 3MLLP0ZAM	S/M M/L	Comfort-Air® 300 With P100 Cartridge Assembly Complete, Thermoplastic Rubber (24/Box) APF 10

COMFORT-AIR SERIES 400 HALF MASK














	Part No.	Size	DESCRIPTION
	400SM00 400ML00	S/M M/L	Comfort-Air® Series 400 Elastomeric Low Maintenance Rubber Facepiece Assembly
	4SMDN5 4MLDN5	S/M M/L	Comfort-Air® 400 With N95 Filter Assembly Complete, Elastomeric Rubber (24/Box) APF 10
	4SMDISKITP100ZAM 4MLDISKITP100ZAM	S/M M/L	Comfort-Air® 400 With DISKIT® P100 Filter Assembly Complete, Elastomeric Rubber (24/Box) APF 10
	4SMLP0ZAM 4MLLP0ZAM	S/M M/L	Comfort-Air® 400 With P100 Cartridge Assembly Complete, Elastomeric Rubber (24/Box) APF 10

COMFORT-AIR SERIES 130M FULL FACEPIECE

	Part No. 130M000	DESCRIPTION 130M Special Compression Silicone Full Facepiece with Neckstrap and Drawstring Nylon Storage Bag - Universal Size
	130MDISKITP100	130M Special Compression Silicone Full Facepiece With Inner Mask & DISKIT® P100 Filters, Neckstrap and Drawstring Nylon Storage Bag - Universal Size (20/Box) APF 50
	130MLP0	130M Special Compression Silicone Full Facepiece With Inner Mask & P100 Cartridges, Neckstrap and Drawstring Nylon Storage Bag - Universal Size (20/Box) APF 50

CARTRIDGES, FILTERS & DISPOSABLES



Part No. DESCRIPTION			Part No. DESCRIPTION		
	158DN5 15DN5B100 158-DN5B1000	N95 Filter Pad (16/Box) N95 Filter Pad (100/Box) N95 Filter Pad (1000/Box)		158T50	Particulate Pad Filter Assembly (4 each, Filter Covers & Filter Holders)
	158T50DNB20	N95 Filters with Black Filter Covers & Holders Assembled (20 Pair/Case)		14880 14880B350	Particulate Pad Filter Holder (6/ Pack) Particulate Pad Filter Holder (350/ Box)
	159T61 198T61B350	Particulate Pad Filter Holder (6/Pack) Particulate Pad Filter Holder (350/Box)		DISKITP100 DISKITP100B50	Diskit® P100 Filter (10 Pair/Box) Diskit® P100 Filter (50 Pair/Box)
	158TLP0 158TLP0B100	P100 Cartridge (3 Pair/Box) P100 Cartridge (50 Pair/Box)		14494	P100 Prefilter for 158TLP0 Cartridges (24/Pack)
	14879	P100 Prefilter Retainer for 14494 Pre-Filters (6/Pack)			
	AD5N95B240	COMFORT-EASE® N95 Disposable Respirator, Cups Shap Flat Fold (20 Respirators per box, 12 boxes per case (240 respirators)		AD5N95VB120	COMFORT-EASE® N95 Disposable Respirator with exhele valve, Cups Shap Flat Fold (20 Respirators per box, 12 boxes per case (240 respirators)
	AD2N95AB240	COMFORT-EASE® N95 Disposable Respirator, 20 Respirators per box, 12 boxes per case (240 respirators)		AD2N95VAB144	COMFORT-EASE® N95 Disposable Respirator with exhale valve, 12 Respirators per box, 12 boxes per case (144 respirators)



www.dentecsafety.com

Email: dentec@dentecsafety.com

Toll Free: 1.888.533.6832

Toll Free Fax: 1.888.953.9946