



OSHA CRYSTALLINE SILICA RULE



OSHA recently issued new standards to protect workers from exposure to respirable crystalline silica – which will allow employers to tailor solutions to the specific conditions in their workplaces. *Reduces the permissible exposure limit (PEL) or respirable crystalline silica to 50 micrograms per cubic meter of air, averaged over an 8-hour shift.*



NEW CONSTRUCTION STANDARDS

- Use engineering controls (such as water or local ventilation)
- Provide respirators and additional PPE as needed
- Develop a written exposure control plan
- Offer medical exams to highly exposed workers
- Train workers on silica risks and how to limit exposure



COMMON APPLICATIONS THAT MAY EXPOSE USERS TO SILICA DUST

- Chipping, hammering and drilling
- Concrete/stone cutting
- Grinding, polishing or buffing concrete
- Tuck-pointing
- Demolition of concrete or masonry



BEST PRACTICES

- LEV: (Local Exhaust Ventilation) capture dust at surface during grinding, drilling & cutting
- Tools equipped with shroud and vacuum: HEPA Filter recommended
- Water spraying systems: Pressurized water pumps for tools designed for wet drilling and cutting such as core drills & concrete saws
- Use appropriate Respirators & Safety Glasses

CONSTRUCTION EMPLOYERS MUST COMPLY WITH ALL REQUIREMENTS TO THE NEW STANDARD BY SEPTEMBER 23, 2017



HOW CAN MILWAUKEE TOOL HELP YOU COMPLY WITH NEW REGULATIONS?

ROTARY HAMMER DRILLING

RECOMMENDED CONTROL METHODS:

VACUUM DUST COLLECTION SYSTEM (VDCS)

- Surrounds the drill bit with a shroud attached to a vacuum system to collect airborne dust
- High efficiency particulate air (HEPA) filters is recommended
- Use a vacuum with enough suction to remove dust at drilling location
- Vacuums work best when regularly cleaned & maintained

RESPIRATORY PROTECTION

- When control methods are used properly, most rotary hammer drilling should not require respirators
- When VDCS do not meet OSHA's permissible exposure limit, respirators are required



HEPA RATED FILTER:
99.97% Efficient at Removing
Particles 0.3µm & Above

DEDICATED SOLUTIONS



(2712-DE)



(2715-DE)

M18™ DEDICATED HAMMERCAC

- Best in class solution
- Best in class HEPA filter
- Powered by dedicated M18 FUEL rotary hammer

M18 FUEL™ SDS PLUS ROTARY HAMMER KITS



M18 FUEL™ 1"

2712-22Tool Kit
2712-22DEKit with Dust Extractor



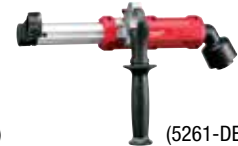
M18 FUEL™ 1-1/8"

2715-22Tool Kit
2715-22DEKit with Dust Extractor

UNIVERSAL SOLUTIONS



(2306-22)



(5261-DE)

M12™ HAMMERCAC

- Best in class HEPA filter
- Powered by M12™ REDLITHIUM™

VACUUM ASSISTED

- Powered by any wet dry vacuum

UNIVERSAL HAMMERCAC™ UNITS WORK WITH ALL SDS PLUS ROTARY HAMMERS:



M18 FUEL™ 1"

(2713)



7/8"

(2605)



5/8"

(2612)



5/8"

(2416)



1/2"

(2412)

GRINDING & SURFACE PREPARATION

RECOMMENDED CONTROL METHODS:

VACUUM

- OSHA silica rule requires a minimum of 25 cubic feet per minute (cfm) per inch of wheel diameter (Example: 5" grinder requires 125 cfm or greater)
- Vacuum is required to provide a filter with having 99% or greater efficiency rating

SHROUD & GRINDER

- Grinding shrouds should enclose the space around the accessory and be properly secured to dust extraction system being used

4"-5" & 7" UNIVERSAL GRINDING SHROUDS



4-5" (49-40-6100)



7" (49-40-6105)

18" HOSE ADAPTER



(49-40-6190)

- Universal shroud fits most pro-branded grinders
- Quick & easy installation
- High density bristles provide maximum dust collection and containment
- Clear front clip allows greater visibility and control



ACCESSORIES



8960-20



5317-DE



49-40-6110



5318-DE



49-40-6101



49-90-1952



49-90-1953



49-90-1954



49-90-1955



49-90-1957



49-90-1958



49-90-1959



49-90-1960

MODEL	DESCRIPTION
5317-DE	SDS Max Dust Extraction
6117-33S	5" Small Angle Grinder w/Shroud Slide, Lock-On
6142-31S	4-1/2" Small Angle Grinder w/Shroud Paddle, Lock-On
8960-20	8 Gallon Dust Extractor
49-40-6110	Cutting Dust Shroud
49-90-1952	HEPA Filter
49-90-1953	Main Filter
49-90-1954	Plastic Dust Bag - 5PK
49-90-1955	Fleece Dust Bag - 5PK
49-90-1957	Power Tool Adapter
49-90-1958	Hose Sleeve
49-90-1959	Hose Clip Adapter
49-90-1960	Dust Extraction Adapter
5318-DE	SDS Max Chisel Boot
49-40-6101	4" - 5" Surface Grinding Dust Shroud

SDS PLUS AND SDS MAX VACUUM DRILL BITS



MODEL	DESCRIPTION
48-20-2102	7/16" SDS Plus Vacuum Bit
48-20-2106	1/2" SDS Plus Vacuum Bit
48-20-2110	9/16" SDS Plus Vacuum Bit
48-20-2114	5/8" SDS Plus Vacuum Bit
48-20-2118	3/4" SDS Plus Vacuum Bit
48-20-2100	SDS Plus Vacuum Bit Replacement Adapter
48-20-2152	5/8" SDS MAX Vacuum Bit
48-20-2156	3/4" SDS MAX Vacuum Bit
48-20-2160	7/8" SDS MAX Vacuum Bit
48-20-2164	1" SDS MAX Vacuum Bit
48-20-2168	1-1/8" SDS MAX Vacuum Bit
48-20-2172	1-3/8" SDS MAX Vacuum Bit
48-20-2150	SDS MAX Vacuum Bit Replacement Adapter



8 GALLON DUST EXTRACTOR ATTACHMENT CONNECTIVITY MATRIX

Hose to Shroud Connection

Shroud to Tool Connection



Hose Clip Adapter
49-90-1955

49-90-1960



4" - 5" Surface
Grinding Dust Shroud
49-40-6101



8 Gallon Dust Extractor
8960-20



Dust Extraction
Adapter
49-90-1957



SDS PLUS & MAX Vacuum Bits



Hose Sleeve
49-90-1953



4" - 5" Surface
Grinding Dust Shroud
49-40-6101



Vacuum Assisted
Dust Extractor
5261-DE



Hose Clip
Adapter
49-90-1955



SDS Max Dust
Extraction
5317-DE



Cutting Dust Shroud
49-40-6110



SDS Max Chisel
Boot 5318-DE