NIOSH Pocket (	Guide to Chemical Hazards, Comj	parison Chart
* This is a recap of the current NIOSH Resprirator & PPE recomme	endations for Chemicals found in 3 common blast media as liste	ed on the NIOSH Chemical Pocket Guide
* Beryllium is listed on the SDS of coal and copper slags, Crystalline	Silica is listed on the SDS of Silica Sand, Amorphous Silica is	found in Glass
* NIOSH recommends that during Abrasive Blasting the blaster mus	st wear an APF 1000 ( Abrasive Blast Hood ). This type Respi	rator would protect a worker for all 3 chemicals
* This Comparision Chart is to show the NIOSH recommendations for	or <u>non-blaster workers</u> that are exposed to the dust from abras	ive blasting particularly in enclosed spaces
* These workers include pot tenders, clean up crews and Inspectors I	ooth Government ( OSHA, DOT, Military ) and Industry ( i.e.	Coating/ Paint Companies )
Beryllium	Crystalline Silica	Amorphous Silica
OSHA (NIOSH has adopted the New OSHA PEL)	NIOSH - REL ( New OSHA PEL is same )	NIOSH - REL
2 Micrograms per Cubic Meter	50 Micrograms per Cubic Meter	6,000 Micrograms per Cubic Meter
Respirator Recommendations (updated June 2019)	Respirator Recommendations	Respirator Recommendations
Up to 0.0002 mg/m3 (milligrams) TWA (8 hours) 2 Micrograms per Cubic Meter	Up to 0.5 mg/m3 milligrams : TWA ( 8 hours ) 500 Micrograms per Cubic Meter	Up to 30 mg/m3 milligrams TWA ( 8 hours ) 30,000 Micrograms per Cubic Meter
Up to 0.002 mg/m3 (STEL 15 minutes) 2.0 Micrograms per Cubic Meter	NA	NA
( <b>APF = 10</b> ) Any air-purifying <b>full-facepiece respirator</b> equipped with an N95, R95, or P95 filter. The following filters may also be used: N99, R99, P99, N100, R100, P100.	(APF = 10) Any particulate respirator equipped with an N95, R95, or P95 filter (including N95, R95, and P95 filtering facepieces) except quarter-mask respirators. The following filters may also be used: N99, R99, P99, N100, R100, P100.	(APF = 5) Any quarter-mask respirator.
Jp to 0.005 mg/m3:	Up to 1.25 mg/m3:	Up to 60 mg/m3:
5 Micrograms per Cubic Meter APF = 25) Any powered air-purifying full facepiece respirator equipped with a hood or helmet and a high efficiency (HEPA) filter	1250 Micrograms per Cubic Meter (APF = 25) Any powered, air-purifying respirator with a high- efficiency particulate filter.	<b>60,000 Micrograms per Cubic Meter</b> ( <b>APF = 10</b> ) Any particulate respirator equipped with an N95, R95, or P95 filter (including N95, R95, and P95 filtering facepieces) except quarter-mask respirators. The following filters may also be used: N99, R99, P99, N100, R100, P100.
Full facepiece (Elastomeric) PF=50 Needs to be fit tested Note: Pictured is an APF 50 which takes an N100, R100, or P100 filter he APF 10 will also work as well per the above comments by NIOSH	Haif mask (Elastomeric)   APF=10   Needs to be fit tested	Half mask/Dust mask   APF=10   Needs to be fit tested

https://www.osha.gov/Publications/3352-APF-respirators.html

Personal Protection/Sanitation	Personal Protection/Sanitation	Personal Protection/Sanitation
Skin:Prevent skin contact	Skin:No recommendation	Skin:No recommendation
Eyes:Prevent eye contact	Eyes:No recommendation	Eyes:No recommendation
Wash skin:Daily	Wash skin:No recommendation	Wash skin:No recommendation
Remove:When wet or contaminated	Remove:No recommendation	Remove:No recommendation
Change: Daily	Change:No recommendation	Change:No recommendation
Provide:Eyewash	NA	NA

Back Up Information/ Definitions mg/m3 = milligrams per cubic meter ug/m3 = micrograms per cubic meter ( 1000 x mg/m3 ) STEL= Short Term Exposure Limit ( 15 minutes ) TWA= Time Weighted Average 8 hours Link to NIOSH Chemical Pocket Guide https://www.cdc.gov/niosh/npg/npgd0054.html