

RESPIRATORS APPROVED BY THE
BUREAU OF MINES AS OF MAY 24, 1972

A Revision of Information Circular 8436
By E. J. Kloos and Robert H. Schutz

THE FOLLOWING SHEETS APPLY TO
ASBESTOS FIBER DUST ONLY

UNITED STATES DEPARTMENT OF THE INTERIOR
Rogers C. B. Morton, Secretary

BUREAU OF MINES
Elburt F. Osborn, Director

DUP 0503418

RESPIRATORS APPROVED BY THE BUREAU OF MINES AS OF MAY 24, 1972

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E. J. Kloos ^{1/} and R. H. Schutz ^{2/}

ABSTRACT

This publication lists devices approved jointly by the Secretary of Interior and the Secretary of Health, Education, and Welfare, as of May 24, 1972, under provisions of 11.2, Part 11, Subchapter B of Chapter 1, Title 30 Code of Federal Regulations (37 F. R. 6244, March 25, 1972), for use in mines as respiratory protection in oxygen-deficient atmospheres, and in gases, vapors, dusts, fumes, and mists. Included are self-contained breathing apparatus, gas masks, and supplied-air, dust, fume, mist, and chemical-cartridge respirators. Names and addresses of manufacturers appear in the Appendix.

INTRODUCTION

The Secretary of Interior and the Secretary of Health, Education, and Welfare have generally restricted use of respirators

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in hazardous mine atmospheres to those most recently approved (Section 11.2, Part 11, Subchapter B of Chapter 1, Title 30, Code of Federal Regulations, 37 F. R. 6244, March 25, 1972). The newer devices are usually more efficient and comfortable than older approved devices. Therefore, only those respirators approved under Bureau of Mines Schedules 14F for gas masks, 19B for supplied-air respirators, 21B for dust, fume and mist respirators and 23B for chemical cartridge respirators are listed. An exception has been made only for self-contained breathing apparatus. All breathing apparatus approved under Schedules 13 through 13E are listed.

It is important to remember the following provisions concerning the use of respirators:

(1) Respirators shall not be substituted for environmental control measures in the active workings.

(2) Respirators shall be maintained in an approved condition.

(3) Respirators shall be selected and used in strict compliance with the limitations specified on the approval label.

The following approved devices, approved as of May 24, 1972, shall be used as respiratory protection, where applicable, against oxygen deficiency, gases, vapors, dusts, fumes, and mists, to comply with the Federal Coal Mine Health and Safety Act of 1969. Devices approved after May 24, 1972 will be listed in subsequent publications.

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TABLE 3. - Demand-Flow, Supplied-Air Respirators

Respirator	Approval Number	Pressure Range (psi)	Type of Respiratory Inlet Covering	
			Half-Mask	Full Facepiece
Scott 26000 and 800000 series;				
Scott/ACME 4637-1, 4637-2, and 4637-3	19B-36	50-125	X	X
M-S-A 46539, 46986, 78315, 84283, 93928, 94842, 94843, 94988, and 457165	19B-42	30-125	X	X
M-S-A 93224, 93225, 93226, 93227, and 457157	19B-43	30-125	X	X
Aro	19B-46	90-110	X	X
Willson, GDFW, TDFW, GD2	19B-47	25-125	X	X
SurvivAir 9011-9	19B-49	50-125	X	X
SurvivAir 9011-1	19B-50	50-125	X	X

TABLE 4. - Pressure-Demand Flow, Supplied Air Respirators

Respirator	Approval Number	Pressure Range (psi)	Type of Respiratory Inlet Covering
Aro	19B-45	90-110	All currently approved pressure-
SurvivAir 9011-02	19B-51	50-125	demand supplied-air respirators
M-S-A 89104	19B-55	80-100	are equipped with full facepieces

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TABLE 5. - Continuous-Flow, Supplied-Air Respirators

Respirator	Approval Number	Pressure Range (psi)	Half Mask	Full Facepiece	Hood or Helmet
Sly "Purair" helmet.....	19B-11	3-5			X
Willson, GA2, GA8, GAF, GAFW and TAFW	19B-12	10-25	X	X	
Willson, GA2H, GAHN, and TAFW	19B-30	40-100	X	X	
Scott-Acme 4615-1, 4616-1, 4615-3, 4614-3..	19B-31	8-17/17-30	X	X	
M-S-A 82554, 82254, 82597, 82584	19B-32	12-16			X
M-S-A 84612, 84535	19B-33	40-100	X	X	
M-S-A 84535, 84612, 87058, 87043, 457161....	19B-34A	40-100	X	X	
M-S-A 457162, 93520, 93516, 93513 and 93524	19B-34B	10-15	X	X	
Chicago Eye Shield No. 603 RH, RS and RG ..	19B-35	15-35			X
M-S-A 87071	19B-37A	40-100	X		
M-S-A 93521, 93522	19B-37B	10-15	X		
M-S-A 93518, 93527, 93530	19B-38	10-15		X	
M-S-A 87963, 87964, 87965	19B-38A	40-100		X	
M-S-A 84304, 82289, 88377, 88376	19B-41	10-15		X	X
M-S-A 84304, 82289, 88376, 88377, 84536 ...	19B-41A	40-100		X	X
Pulmosan AL-180 and HA-99	19B-44	20-25		X	X
Rite Hardware 460-15	19B-48	12-20		X	X
M-S-A 72662, 34727, 34728, 94494 and 450168	19B-52	16-22		X	X
M-S-A 94861, 94862, 94863, 94864	19B-53	15-20		X	X
A. O. R6099	19B-54	8.5-25	X		
Personal Environment Systems 810, 858, 870, 856	19B-56	25-35			X
Bullard 46-S, 46-D, 36-L, 36-ID, 77-S, 77-D	19B-57	80-95			X
Personal Environment Systems 820, 880, 888	19B-58	60-80			X
Personal Environment Systems 920, 980, 988, 981	19B-59	60-80			X
A. O. ASH series	19B-60	10-60			X
Safeline 7501-7511 series	19B-61	10-60			X
Safeline 5775	19B-63	8.5-25	X		

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TABLE 7. - Dust, Fumes, and Mist Respirators

Respirator	Approval Number	Protection Afforded in Addition to Dusts			
		Mists	Fumes	Radionu- clides	Radon Daughters
Pulmosan, L-800	21B-60				
A. O. R5056 and R6056	21B-63	X	X		
Safeline 5241	21B-63	X	X		
M-S-A 86431	21B-69	X	X		X
Pulmosan, C-251	21B-71	X	X		
A. O. R2090	21B-72	X			
Devilbiss MSD-505	21B-72	X			
Pulmosan C-264	21B-73	X			
A. O. R 5030	21B-74	X			
Safeline 5265	21B-74	X			
Pulmosan	21B-76	X			
Casco 90F	21B-77	X			
A. O. R6030	21B-78	X			
Welsh 7506	21B-79	X			
Safeline 5441	21B-81	X			
Bausch & Lomb 5R20	21B-82	X			
Glendale Optical GR 2000, 4000	21B-82	X			
Bausch & Lomb 5R10	21B-83				
Glendale Optical GR 1000, 3000	21B-83				
A. O. R9166	21B-84	X	X		
Safeline 5701	21B-84	X	X		
A. O. R3030	21B-85	X			
A. O. R8156	21B-87	X	X		
A. O. R8100	21B-88	X			
Glendale GR 2026	21B-89		X (Not approved for Dust)		
Bausch & Lomb 5R26	21B-89		X (Not approved for Dust)		
M-S-A 86432	21B-90	X	X	X	
3M 8700	21B-91	X			
Safeline 5550	21B-92	X			
Safeline 5556	21B-93	X			
Willson 1009	21B-94	X	X	X	
Willson RFMW-809, TFMW-809	21B-95	X	X	X	
M-S-A 96000	21B-97	X			
A. O. R6057 and R5057	21B-98	X	X	X	
Safeline 5245	21B-98	X	X	X	
Scott/Acme 659-1	21B-99	X	X	X	

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TABLE 7. - Dust, Fumes, and Mist Respirators

Respirator	Approval Number	Protection Afforded in Addition to Dusts			
		Mists	Fumes	Radionu- clides	Radon Daughters
Scott/Acme 8201-R	21B-100	X	X	X	
M-S-A 88479, 457117	21B-101	X	X	X	
M-S-A 84303, 457116	21B-102	X	X	X	
Protector 1054	21B-103	X			
Personal Environmental Systems..					
330, 350, 351, and 360	21B-104	X	X		
Welsh 75BP-80, 7580, 7580RD	21B-105	X	X	X	X
Welsh 7680	21B-106	X	X	X	
A. O. 1040	21B-107	X			
Safeline 5340	21B-108	X			
North RP-161	21B-109				
Willson 1210	21B-110	X			
Willson 1211	21B-111	X	X		
M-S-A 76869	21B-113	X			
Welsh 7100	21B-114	X			
Scott/Acme 8101-R	21B-115	X	X	X	
Scott/Acme 659-1, 662-1, 662-2, 652-1 with 502R filter	21B-116	X	X	X	
Welsh 7406	21B-117				
Welsh 7506	21B-118	X			
M-S-A 86430 and 94688	21B-119	X			
M-S-A Peru	21B-120	X			
Willson 560	21B-121	X			
M-S-A 456608	21B-122	X			
M-S-A 456607	21B-123	X			
North RP-162	21B-124	X			
A. O. 8190	21B-125	X	X		X
Safeline 5540	21B-126	X	X		X
A. O. 8157	21B-127	X	X	X	
Safeline 5557	21B-128	X			
Welsh 7165	21B-129				
M-S-A 459059	21B-130	X	X	X	
Pulmosan G-263 with 10924 face cushion	21B-131	X	X	X	

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