

CHEMICAL CARTRIDGE RESPIRATORS (23C)

E. Chemical Cartridges

1. Ammonia

Approval

Approved for respiratory protection against ammonia.

Limitations

Not for use in atmospheres immediately dangerous to life or health.

Not for use in atmospheres containing less than 19.5 percent oxygen.

In making renewals and repairs, parts identical with those furnished by the manufacturer under the pertinent approval shall be maintained.

Refer to approval label and instruction and maintenance manuals for additional information on use and maintenance of these respirators.

Follow the manufacturer's instructions for changing cartridges or for discarding disposable respirators.

Approval may include protection against particulates or other gases and vapors. The type of additional approval is listed in the last two columns. See page 10 for definitions of particulate types and approved use concentrations on gases and vapors.

This respirator shall be selected, fitted, used and maintained in accordance with Mine Safety and Health Administration and other applicable regulations

CHEMICAL CARTRIDGES - AMMONIA

Approval Number TC-23C-	Approval Issued to	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
528	Pirelli	Rp,Fm,FF	2		
544	Safety Supply	Rp,Fm,ON	2		
545	Safety Supply	Rp,Fm,FF	2		
970	Cabot Safety	PAPR,FF	2		
1028	Cabot Safety	Rp,Fm,FF	1		
1029	Cabot Safety	Rp,Fm,FF	1		
1034	Cabot Safety	PAPR,FF	2		
1175	North	Es,Mp	1		
1176	North	Es,Mp	1	DM	
1213	Scott	Es,Mp	1		
1214	Cabot Safety	PAPR,ON	2		
1218	Scott	Es,Mp	1	DM	

2. Methylamine and Ammonia

Approval

Approved for respiratory protection against methylamine and ammonia.

Limitations

Not for use in atmospheres immediately dangerous to life and health.

Not for use in atmospheres containing less than 19.5 percent oxygen.

In making renewals and repairs, parts identical with those furnished by the manufacturer under the pertinent approval shall be maintained.

Refer to approval label and instruction and maintenance manuals for additional information on use and maintenance of these respirators.

Follow the manufacturer's instructions for changing cartridges or for discarding disposable respirators.

Approval may include protection against particulates or other gases and vapors. The type of additional approval is listed in the last two columns. See page 10 for definitions of particulate types and approved use concentrations on gases and vapors.

This respirator shall be selected, fitted, used and maintained in accordance with Mine Safety and Health Administration and other applicable regulations.

CHEMICAL CARTRIDGES - METHYLAMINE and AMMONIA

Approval Number TC-23C-	Approval Issued to	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
43	MSA	Rp,Fm,Bm,ON	2	DM	
63	North	Rp,Fm,ON	2		
64	North	Rp,Fm,ON	2	DM	
70	Willson	Rp,Fm,ON	2		
71	Willson	Rp,Fm,ON	2	DM	
109	Cabot Safety	Rp,Fm,ON	2		
139	Willson	Rp,Fm,FF	2		
140	Willson	Rp,Fm,FF	2	DM	
147	MSA	Rp,Fm,FF	2	DM	
152	MSA	Rp,Fm,FF	2	HA	
158	MSA	Rp,Fm,Bm,ON	2	HA	
176	North	Rp,Bm,ON	2		
177	North	Rp,Bm,ON	2	DM	
182	North	Rp,Fm,FF	2		
187	North	Rp,Fm,FF	2	DM	
191	US Safety	Rp,Fm,ON	2		
192	Cesco	Rp,Fm,ON	2		
193	US Safety	Rp,Fm,ON	2	DM	

193	Lab Safety Supply	Rp,Fm,ON	2	DM
194	Cesco	Rp,Fm,ON	2	DM
213	North	Rp,Fm,ON	2	HRA
214	North	Rp,Bm,ON	2	HRA
215	North	Rp,Fm,FF	2	HRA
217	3M	Su,ON	1	DM
235	Cabot Safety	Rp,Fm,FF	2	
252 REPLACED BY TC-23C-772	Scott	Rp,Fm,ON	2	
253	Scott	Rp,Fm,FF	2	
254	Scott	Rp,Fm,ON	2	DM
255	Scott	Rp,Fm,FF	2	DM
256	Scott	Rp,Fm,ON	2	DFMR
257	Scott	Rp,Fm,FF	2	DFMR
269	Cesco	Rp,Fm,FF	2	DM
270	US Safety	Rp,Fm,FF	2	DM
270	Lab Safety Supply	Rp,Fm,FF	2	DM
279	Protech	Rp,Fm,ON	2	
280	Protech	Rp,Fm,ON	2	DM

280	Sellstrom	Rp,Fm,ON	2	DM
283	Pulmosan	Rp,Fm,ON	1	
284	Pulmosan	Rp,Fm,ON	1	DM
289	Willson	Rp,Fm,ON	2	
290	Willson	Rp,Fm,FF	2	
291	Willson	Rp,Fm,ON	2	HA
292	Willson	Rp,Fm,FF	2	HA
314	Cesco	Rp,Fm,ON	2	HRA
315	US Safety	Rp,Fm,ON	2	HRA
315	Lab Safety Supply	Rp,Fm,ON	2	HRA
316	Cesco	Rp,Fm,FF	2	HRA
317	US Safety	Rp,Fm,FF	2	HRA
317	Lab Safety Supply	Rp,Fm,FF	2	HRA
319	Sellstrom	Rp,Fm,ON	2	
329	Cabot Safety	Rp,Fm,ON	2	
330	Cabot Safety	Rp,Fm,FF	2	
331	Cabot Safety	Rp,Fm,ON	2	DM

332	Cabot Safety	Rp,Fm,FF	2	DM
347	Eastern	Rp,Fm,ON	2	
350	North	Su,ON	1	
358	North	Su,ON	1	DM
364	Willson	Rp,Bm,ON	2	
365	Willson	Rp,Bm,FF	2	
366	Willson	Rp,Bm,ON	2	
367	Willson	Rp,Bm,FF	2	
378	Willson	Rp,Bm,ON	2	DM
379	Willson	Rp,Bm,FF	2	
384	Willson	Rp,Bm,ON	2	HA
385	Willson	Rp,Bm,FF	2	HA
403	Glendale	Rp,Fm,ON	2	
412	Glendale	Rp,Fm,FF	2	DM
419	Cabot Safety	Rp,Fm,ON	2	HRA
420	Cabot Safety	Rp,Fm,FF	2	HRA
422	Survivair	Rp,Fm,ON	2	
423	Survivair	Rp,Fm,ON	2	

440	3M	Rp,Fm,ON	2	
441	3M	Rp,Fm,ON	2	DM
442	3M	Rp,Fm,ON	2	HRA
457	Protech	Rp,Fm,ON	2	HRA
457	Sellstrom	Rp,Fm,ON	2	HRA
463	MSA	Rp,Bm,ON	2	DM
468	MSA	Rp,Bm,ON	2	HA
498	Pulmosan	Rp,Fm,FF	1	
502	Pulmosan	Rp,Fm,FF	1	DM
513	MSA	Rp,Fm,ON	1	
515	Pirelli	Rp,Fm,ON	2	
519 REPLACED BY TC-23C-775	Scott	Rp,Fm,ON	2	HRA
520	Scott	Rp,Fm,FF	2	HAR
559	Willson	Rp,Fm,ON	2	
560	Willson	Rp,Fm,ON	2	
561	Willson	Rp,Fm,ON	2	
562	Willson	Rp,Fm,ON	2	
575	Willson	Rp,Fm,ON	2	DM
576	Willson	Rp,Fm,ON	2	DM

581	Willson	Rp,Fm,ON	2	HA
582	Willson	Rp,Fm,ON	2	HA
589	Racal	PAPR,HH	3	
590	Racal	PAPR,FF	3	
591	Racal	PAPR,HH	3	
592	Racal	PAPR,HH	3	
612	Racal	PAPR,ON	3	
623	Glendale	Rp,Fm,ON	2	HRA
624	Glendale	Rp,Fm,FF	2	HRA
628	Neoterik	PAPR,ON	3	
633	Racal	PAPR,HH	3	
639	Neoterik	PAPR,FF	3	
641	Racal	PAPR,HH	3	HRA
642	Racal	PAPR,FF	3	HRA
643	Racal	PAPR,HH	3	HRA
644	Racal	PAPR,HH	3	HRA
645	Racal	PAPR,HH	3	HRA
646	Racal	PAPR,ON	3	HRA
658	North	Rp,Fm,ON	2	DFM

659	North	Rp,Bm,ON	2	DFM
660	North	Rp,Fm,FF	2	DFM
666	Protech	Rp,Fm,FF	2	
666	Sellstrom	Rp,Fm,FF	2	
666	Eastern	Rp,Fm,FF	2	
667	Protech	Rp,Fm,FF	2	DM
667	Sellstrom	Rp,Fm,FF	2	DM
674	Protech	Rp,Fm,FF	2	HRA
674	Sellstrom	Rp,Fm,FF	2	HRA
686	3M	Rp,Fm,FF	2	
692	3M	Rp,Fm,FF	2	DM
696	3M	Rp,Fm,FF	2	HRA
723	Willson	Rp,Fm,ON	2	DFM
724	Willson	Rp,Fm,FF	2	DFM
725	Willson	Rp,Fm,ON	2	DFM
726	Willson	Rp,Bm,ON	2	DFM
727	Willson	Rp,Bm,FF	2	DFM
728	Willson	Rp,Bm,ON	2	DFM
735	Willson	Rp,Fm,ON	2	

739	Willson	Rp,Fm,ON	1	
744	Willson	Rp,Fm,FF	2	
750	Willson	Rp,Fm,FF	2	DM
752	Willson	Rp,Fm,ON	2	DM
758	Willson	Rp,Fm,ON	1	DM
761	Willson	Rp,Fm,ON	2	HA
762	Willson	Rp,Fm,FF	2	HA
772	Scott	Rp,Fm,ON	2	
773	Scott	Rp,Fm,ON	2	DM
774	Scott	Rp,Fm,ON	2	DFMR
775	Scott	Rp,Fm,ON	2	HRA
785	Willson	Rp,Fm,ON	2	DFMR
786	Willson	Rp,Fm,FF	2	DFMR
795	Cabot Safety	Rp,Fm,FF	2	HRA
800	Cabot Safety	Rp,Fm,FF	2	
810	Cabot Safety	Rp,Fm,FF	2	DM
823	Glendale	Rp,Fm,ON	2	
824	Glendale	Rp,Fm,ON	2	HRA

827	Willson	Rp,Fm,ON	1	DFM
834	MSA	Rp,Fm,FF	2	DM
840	MSA	Rp,Fm,FF	2	HA
845	MSA	Rp,Fm,FF	2	DM
856	MSA	Rp,Fm,FF	2	HA
858	Cabot Safety	Es,MP	1	
861	3M	Su,ON	2	
862	3M	Su,ON	2	DM
879	3M	Rp,Fm,FF	2	
885	3M	Rp,Fm,FF	2	DM
889	3M	Rp,Fm,FF	2	HRA
895	Racal	PAPR,HH	3	
898	Racal	PAPR,HH	3	HRA
908	Cabot Safety	Rp,Fm,ON	2	DFMR
909	Cabot Safety	Rp,Fm,FF	2	DFMR
910	Cabot Safety	Rp,Fm,FF	2	DFMR
935	MSA	Rp,Fm,ON NOT APPROVED FOR RADIONUCLIDES	2	HA

936	MSA	Rp,Bm,ON NOT APPROVED FOR RADIONUCLIDES	2	HA
937	MSA	Rp,Bm,ON NOT APPROVED FOR RADIONUCLIDES	2	HA
938	MSA	Rp,Fm,FF NOT APPROVED FOR RADIONUCLIDES	2	HA
939	MSA	Rp,Fm,FF NOT APPROVED FOR RADIONUCLIDES	2	HA
940	MSA	Rp,Fm,FF NOT APPROVED FOR RADIONUCLIDES	2	HA
948	MSA	Rp,Fm,FF	2	DM
954	MSA	Rp,Fm,FF	2	HA
959	MSA	Rp,Fm,FF NOT APPROVED FOR RADIONUCLIDES	2	HA
962	Masprot	Rp,Fm,ON	2	
964	Critical Products Group	Rp,Fm,ON	2	HA
975	National Draeger	Rp,Fm,FF	1	HA
976	National Draeger	Rp,Fm,FF	1	
987	Cabot Safety	Rp,Fm,FF	2	
988	Cabot Safety	Rp,Fm,FF	2	DM

989	Cabot Safety	Rp,Fm,FF	2	DFMR
1002	Cabot Safety	Rp,Fm,FF	2	HRA
1011	3M	Su,ON	2	HRA
1016	Survivair	Rp,Fm,ON	2	DM
1017	Survivair	Rp,Fm,FF	2	DM
1018	Survivair	Rp,Fm,ON	2	HRA
1019	Survivair	Rp,Fm,FF	2	HRA
1040	Willson	Su,ON	2	
1041	Willson	Su,ON	2	DM
1049	Willson	Su,ON	2	HA
1055	MSA	PAPR,FF	2	
1058	MSA	PAPR,FF	2	HA
1059	MSA	PAPR,FF NOT APPROVED FOR RADIONUCLIDES	2	HA
1066	3M	Rp,Fm,ON	2	
1070	3M	Rp,Fm,ON	2	DM
1075	3M	Rp,Fm,ON	2	HRA
1079	MSA	Rp,Fm,FF	2	DM
1090	MSA	Rp,Fm,FF	2	HA

1094	MSA	Rp,Fm,FF NOT APPROVED FOR RADIONUCLIDES	2	HA
1098	North	Su,ON	2	
1102	North	Su,ON	2	DM
1108	North	Su,ON	2	HR
1112	North	Su,ON	2	DFM
1120	Racal	Rp,Fm,FF	1	
1121	Racal	Rp,Fm,FF	1	HRA
1133	Survivair	Su,ON	2	
1135	Glendale	Rp,Fm,ON	2	DM
1136	Glendale	Rp,Fm,ON	2	DM
1138	Glendale	Rp,Fm,ON	2	DM
1139	Willson	Rp,Fm,ON	2	
1143	Willson	Rp,Fm,ON	2	
1146	Willson	Rp,Fm,ON	2	DM
1151	Willson	Rp,Fm,ON	2	DFM
1155	Willson	Rp,Fm,ON	2	HA
1160	MSA	Rp,Fm,FF	2	DM
1166	MSA	Rp,Fm,FF	2	HA

1173	MSA	Rp,Fm,FF NOT APPROVED FOR RADIONUCLIDES	2	HA
1187	Racal	PAPR,HH	3	
1188	Racal	PAPR,HH	3	HRA
1192	MSA	Rp,Fm,FF	2	DM
1198	MSA	Rp,Fm,FF	2	HA
1205	MSA	Rp,Fm,FF NOT APPROVED FOR RADIONUCLIDES	2	HA
1220	National Draeger	Rp,Fm,FF	1	DM
1239	Cabot Safety	Rp,Fm,ON	2	
1240	Cabot Safety	Rp,Fm,ON	2	DM
1241	Cabot Safety	Rp,Fm,ON	2	DFMR
1242	Cabot Safety	Rp,Fm,ON	2	HRA
1251	MSA	PAPR,ON	2	
1254	MSA	PAPR,ON	2	HA
1255	MSA	PAPR,ON NOT APPROVED FOR RADIONUCLIDES	2	HA
1273	Survivair	Su,ON	2	DM
1279	MSA	Rp,Fm,ON	2	

1284	MSA	Rp,Fm,ON NOT APPROVED FOR RADIONUCLIDES	2	A
1284	Critical Services	Su,ON NOT APPROVED FOR RADIONUCLIDES	2	HA
1285	MSA	Rp,Fm,ON	2	A
1306	National Draeger	Rp,Fm,ON	1	
1307	National Draeger	Rp,Fm,ON	1	HA
1324	3M	Su,ON	2	DM
1325	3M	Rp,Fm,ON	2	DM
1334	3M	Su,ON NOT APPROVED FOR RADIONUCLIDES	2	HR
1335	3M	Rp,Fm,ON NOT APPROVED FOR RADIONUCLIDES	2	HR
1369	Moldex-Metric	Rp,Fm,ON	2	
1372	MSA	Rp,Fm,FF	2	
1376	MSA	Rp,Fm,FF NOT APPROVED FOR RADIONUCLIDES	2	HRA
1377	MSA	Rp,Fm,FF	2	HRA
1394	Cabot Safety	Rp,Fm,FF	2	
1395	Cabot Safety	Rp,Fm,FF	2	DM
1396	Cabot Safety	Rp,Fm,FF	2	DFMR
1397	Cabot Safety	Rp,Fm,FF	2	HRA

3. Chlorine

Approval

Approved as respiratory protection against chlorine.

Limitations

Not for use in atmospheres immediately dangerous to life or health.

Not for use in atmospheres containing less than 19.5 percent oxygen.

In making renewals and repairs, parts identical with those furnished by the manufacturer under the pertinent approval shall be maintained.

Refer to approval label and instruction and maintenance manuals for additional information on use and maintenance of these respirators.

Follow the manufacturer's instructions for changing cartridges or for discarding disposable respirators.

Approval may include protection against particulates or other gases and vapors. The type of additional approval is listed in the last two columns. See page 10 for definitions of particulate types and approved use concentrations on gases and vapors.

This respirator shall be selected, fitted, used and maintained in accordance with Mine Safety and Health Administration and other applicable regulations.

CHEMICAL CARTRIDGES - CHLORINE

Approval Number TC-23C-	Approval Issued to	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
55	Scott Replaced by TC-23C-492	Es,MP	1		
108	MSA	Es,MP	1	DM	HCl
195	3M	Su,ON	1	DM	
196	3M	Su,ON	1	DM	OV
479	Racal	PAPR,HH	3		HCl
480	Racal	PAPR,HH	3		HCl
481	Racal	PAPR,HH	3		HCl
492	Scott	Es,MP	1		HCl/H ₂ S
525	Scott REPLACED BY TC-23C-784	Rp,Fm,ON	2	HRA	
526	Scott	Rp,Fm,FF	2		
534	Racal	PAPR,FF	3		HCl
604	Cabot Safety	Es,MP	1		ClO ₂ /H ₂ S
610	Racal	PAPR,ON	3		HCl
629	MSA	Rp,Bm,ON	2		HG
631	Racal	PAPR,HH	3		HCl
680	Survivair	Rp,Fm,ON	2	HRA	

681	Survivair	Rp,Fm,FF	2	HRA	
784	Scott	Rp,Fm,ON	2	HRA	
916	Glendale	Rp,Bm,ON	2		HG
1031	Cabot Safety	Rp,Bm,ON	2		HG
1032	Cabot Safety	Rp,Bm,FF	2		HG
1046	MSA	Rp,Bm,ON	2	HA	HG
1348	MSA	Rp,Bm,FF	2	HA	HG
1349	MSA	Rp,Bm,ON	2	HA	HG
1354	MSA	Rp,Bm,FF	2		HG
1355	MSA	Rp,Bm,FF	2	HA	HG
1356	Willson	Rp,Bm,ON	2		HG
1357	Willson	Rp,Bm,FF	2		HG

4. Hydrogen Chloride

Approval

Approved as respiratory protection against not more than 50 parts per million hydrogen chloride.

Limitations

Not for use in atmospheres immediately dangerous to life or health.

Not for use in atmospheres containing less than 19.5 percent oxygen.

In making renewals and repairs, parts identical with those furnished by the manufacturer under the pertinent approval shall be maintained.

Refer to approval label and instruction and maintenance manuals for additional information on use and maintenance of these respirators.

Follow the manufacturer's instructions for changing cartridges or for discarding disposable respirators.

Approval may include protection against particulates or other gases and vapors. The type of additional approval is listed in the last two columns. See page 10 for definitions of particulate types and approved use concentrations on gases and vapors.

This respirator shall be selected, fitted, used and maintained in accordance with Mine Safety and Health Administration and other applicable regulations.

CHEMICAL CARTRIDGES - HYDROGEN CHLORIDE

Approval Number TC-23C-	Approval Issued to	Model Number(s)	Respirator and Facepiece Type	Number of Cartridges	Other Approvals DFM	Gas and Vapor
108	MSA		Es,MP	1	DM	Cl
479	Racal		PAPR,HH	3		Cl
480	Racal		PAPR,HH	3		Cl
481	Racal		PAPR,HH	3		Cl
492	Scott		Es,MP	1		Cl/H2S
534	Racal		PAPR,FF	3		Cl
610	Racal		PAPR,ON	3		Cl
631	Racal		PAPR,HH	3		Cl