

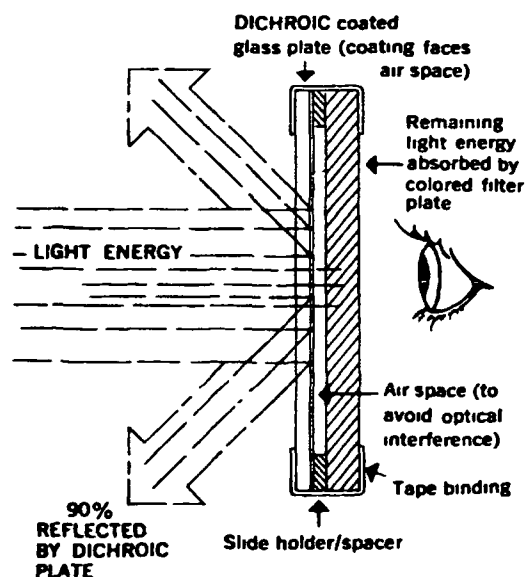
19—Personal Protective Equipment

TABLE 19-A
TRANSMITTANCES AND TOLERANCES IN TRANSMITTANCE OF VARIOUS
SHADES OF FILTER LENSES

Shade No	Optical Density			Luminous Transmittance			Maximum Infrared Transmittance	Maximum Spectral Transmittance in the Ultraviolet and Violet for Four Wavelengths (millimicrons)			
	Min	Std	Max	Max	Std	Min		313	334	365	405
				per cent	per cent	per cent	per cent	per cent	per cent	per cent	per cent
1 5	0 17	0 214	0 26	67	61 1	55	25	0 2	0 8	25	65
1 7	0 26	0 300	0 36	55	50 1	43	20	0 2	0 7	20	50
2 0	0 36	0 429	0 54	43	37 3	29	15	0 2	0 5	14	35
2 5	0 54	0 643	0 75	29	22 8	18 0	12	0 2	0 3	5	15
3 0	0 75	0 857	1 07	18 0	13 9	8 50	9 0	0 2	0 2	0 5	6
4 0	1 07	1 286	1 50	8 50	5 18	3 16	5 0	0 2	0 2	0 5	1 0
5 0	1 50	1 714	1 93	3 16	1 93	1 18	2 5	0 2	0 2	0 2	0 5
6 0	1 93	2 143	2 36	1 18	0 72	0 44	1 5	0 1	0 1	0 1	0 5
7 0	2 36	2 571	2 79	0 44	0 27	0 164	1 3	0 1	0 1	0 1	0 5
8 0	2 79	3 000	3 21	0 164	0 100	0 061	1 0	0 1	0 1	0 1	0 5
9 0	3 21	3 429	3 64	0 061	0 037	0 023	0 8	0 1	0 1	0 1	0 5
100	3 64	3 857	4 07	0 023	0 0139	0 0085	0 6	0 1	0 1	0 1	0 5
11 0	4 07	4 286	4 50	0 0085	0 0052	0 0032	0 5	0 05	0 05	0 05	0 1
12 0	4 50	4 714	4 93	0 0032	0 0019	0 0012	0 5	0 05	0 05	0 05	0 1
13 0	4 93	5 143	5 36	0 0012	0 00072	0 00044	0 4	0 05	0 05	0 05	0 1
14 0	5 36	5 571	5 79	0 0004	0 00027	0 00016	0 3	0 05	0 05	0 05	0 1

NOTE The values given apply to class I filter glass. For class II filter lenses, the transmittances and tolerances are the same with the additional requirement that the transmittance of 589 3 millimicrons shall not exceed 15 per cent of the luminous transmittance. Some of the headings in this table have been changed to conform with NBS Letter Circular LC857.

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chemicals may be provided in a variety of ways, depending upon the hazard. Good protection is given by a hood made of chemical-resistant material with a glass or plastic window (Fig 19-20). In all cases, there should be a secure joint between the window and the hood materials.

Hoods are extremely hot to wear, and can be obtained with air lines for the wearer's comfort. When a hood is so supplied, the wearer should have a harness or belt like that on an air line respirator (see Fig 19-30 and -31) for support of the hose. A device based on a vortex principle has been developed to provide temperature-conditioned air (See Fig 19-36).

If protection is necessary only from limited direct splashes, the wearer can don a face

FIG 19-22 —Diagram shows how "antilaser eyeshield" deflects laser beam