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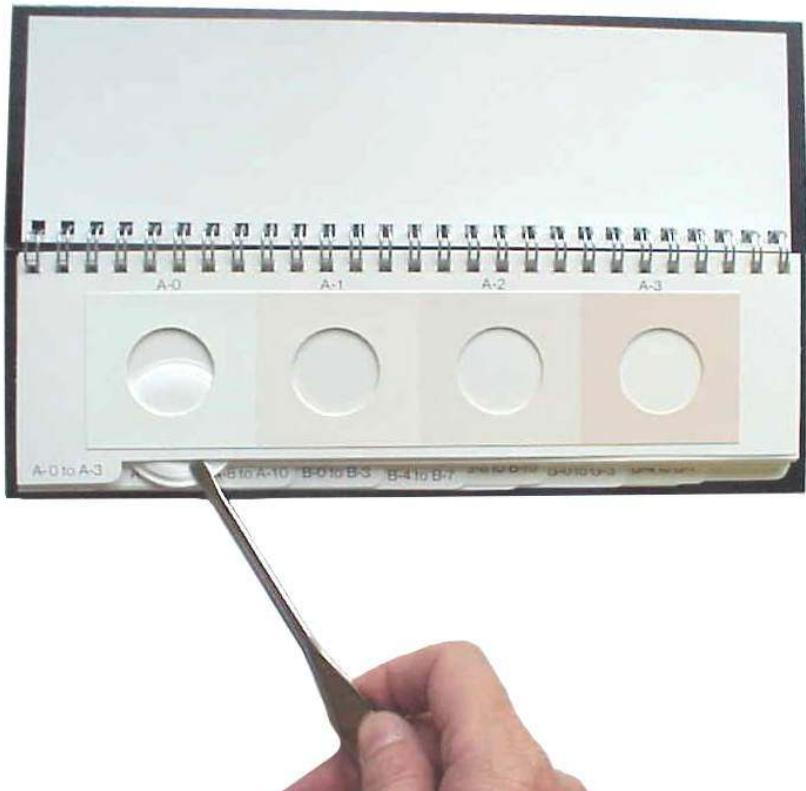
**ASTM COLOR
STANDARDS**

**BULLETIN 80
(7-16)**

ASTM COLOR RATING BOOKLET

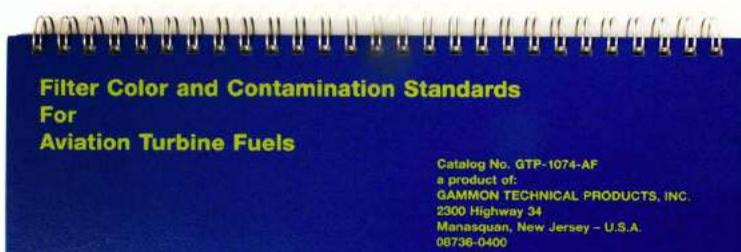
For use in color rating filter membranes for aviation turbine fuels in accordance with Appendix X1 of ASTM Test Method D2276/IP216

Available through Gammon Technical Products distributors worldwide. We are proud to have been appointed as the central custodian for this color standard booklet. We supervise the manufacture and color certifications.



GTP-1074-1

Our standard color rating booklet.



GTP-1074-AF

This booklet contains the same color rating pages as the standard booklet, with the addition of a particle assessment rating guide at the back of the book.

SPECIFICATIONS

- Each color standard panel has been certified in accordance with the Munsell Color rating system to Triple A standards for chroma, value, and hue. The colors, as specified in ASTM D2276/IP216, are as follows:

Rating Number	Scale A			Scale G			Scale B					
	Munsell	CIELAB		Munsell	CIELAB		Munsell	CIELAB				
		L*	a*	b*	L*	a*	b*	L*	a*	b*		
0	N 9.6	98.99	0.00	-0.01	N 9.6/	98.99	0.00	-0.01	N 9.6/	96.99	0.00	-0.01
1	2.5 YR 9.3/0.5	94.03	1.41	2.01	N 9.3/	94.03	0.00	-0.01	5 Y 9.3/0.5	94.03	-0.60	4.21
2	2.5 YR 9/1	91.08	2.69	3.79	N 9/	91.08	0.00	-0.01	3.4 Y 9/1	91.08	-0.70	8.05
3	2.5 YR 8.5/2	86.21	5.27	7.43	N 8.5/	86.21	0.00	-0.01	1.7 Y 8.5/2	86.21	0.13	14.89
4	2.5 YR 8/3	81.35	8.90	12.37	N 8/	81.35	0.00	-0.01	10 YR 8/3	81.35	2.78	19.60
5	2.5 YR 7/4	71.60	12.41	16.88	N 7/	71.60	0.00	-0.01	10 YR 7/4	71.60	4.50	25.82
6	2.5 YR 6/3.4	61.70	11.07	14.37	N 6/	61.70	0.00	-0.01	10 YR 6/3.4	61.70	4.28	21.57
7	2.5 YR 5/2.8	51.57	9.60	11.66	N 5/	51.57	0.00	0.00	10 YR 5/2.8	51.57	4.09	17.64
8	2.5 YR 4/2.2	41.22	8.50	9.60	N 4/	41.22	0.00	0.00	10 YR 4/2.2	41.22	3.60	14.46
9	2.5 YR 3/1.6	30.77	6.85	6.84	N 3/	30.77	0.00	0.00	10 YR 3/1.6	30.77	2.88	9.68
10	2.5 YR 2.5/1	25.61	4.48	3.83	N 2.5/	25.61	0.00	0.00	10 YR 2.5/1	25.61	1.96	5.76

- Every color page is wire bound.
- Each color standard has a 1 inch (25mm) window so that the membrane can be viewed for better accuracy in color rating.
- Every color page has an index tab to speed up finding the right page.
- Margins are provided at the ends of color pages to avoid fingerprints on color panels.
- Fuel resistant lamination is provided on the back on each color page and on an interleaf between each color page. This prevents a wet membrane from soaking the page and possibly altering the color.

IMPORTANT NOTE: Instrumented tests have proven that some colors in the old, original booklets dated 1981 have changed over the years since they were originally manufactured. Those booklets have been declared invalid and must be destroyed.

ASTM D2276, paragraph X1.5.1.1 states the following:

Charts in use should be checked periodically against a reference set of color standards to eliminate the possibility that sunlight or soiling due to handling may have appreciably changed the colors. The reference set is a set of color standards obtained new, stored in dry, dark conditions, and is only used for the purpose of checking the standards in day-to-day use.