

# MAGNETIC REFERENCE LABORATORY, INC.

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## Four-Frequency Calibration Tapes: 1 kHz, 10 kHz, 16 kHz, and 50 Hz, ¼ each

These "minimalist" four-frequency Calibration Tapes contain a 1 kHz signal for setting level, a 10 kHz signal for setting azimuth and high-frequency equalization, a 16 kHz signal for checking high-frequency response, and a 50 Hz signal for checking the low-frequency equalization. They are shown in the table below for ¼-, ½-, 1-, and 2-inch widths; and 3.75-, 7.5-, 15-, and 30-in/s tape speeds.

Catalog numbers are shown for reference fluxivities of both 250 nWb/m ("+3 dB") and 355 nWb/m ("+6 dB"). All tones are recorded at 0 dB on 15- and 30-in/s tapes; all tones are recorded at -10 dB on 3.75- and 7.5 in/s tapes, to avoid saturating the tape at high frequencies. All of these recordings

are fringing compensated. For 2-track ½ inch, or 2- or 4-track 1 inch use, inquire for the catalog numbers of non-fringing compensated tapes. Please also see Publication LF, on the other side.

Catalog numbers and prices are given for total durations of 4 minutes (54 s per tone) and for 8 minutes (115 s per tone).

See "Choosing and Using MRL Calibration Tapes for Audio Tape Recorder Standardization", MRL Publication Choo&U, for more information on choosing and converting between different equalizations and levels, as well as descriptions of other test signals that are available from MRL, and notes on using Calibration Tapes.

Table of Four-Frequency Calibration Tapes with 1 kHz, 10 kHz, 16 kHz, and 50 Hz, ¼ each

Medium	Tape Speed	Equalization Standard	Level of Recorded Signals*	4 minutes total (54 s per tone)			8 minutes total (115 s per tone)		
				Catalog Number for Reference Fluxivity of:		Price	Catalog Number for Reference Fluxivity of:		Price
				250 nWb/m ("+3 dB")	355 nWb/m ("+6 dB")		250 nWb/m ("+3 dB")	355 nWb/m ("+6 dB")	
¼ in	3.75 in/s	IEC & NAB	-10 dB	221-043-382-104	221-043-412-100	100 \$	221-043-382-120	221-043-412-120	140 \$
	7.5 in/s	IEC (IEC1)	-10 dB	231-043-382-101	231-043-412-107		231-043-382-127	231-043-412-123	
		NAB (IEC2)	-10 dB	233-043-382-107	233-043-412-103		233-043-382-123	233-043-412-129	
	15 in/s	IEC (IEC1)	0 dB	241-043-482-101	241-043-512-107		241-043-482-127	241-043-512-123	
		NAB (IEC2)	0 dB	243-043-482-107	243-043-512-103		243-043-482-123	243-043-512-129	
30 in/s	AES (IEC2)	0 dB	251-043-482-108	251-043-512-104	105 \$	251-043-482-124	251-043-512-120	155 \$	
½ in	3.75 in/s	IEC & NAB	-10 dB	321-043-382-103	321-043-412-109	145 \$	321-043-382-129	321-043-412-125	225 \$
	7.5 in/s	IEC (IEC1)	-10 dB	331-043-382-100	331-043-412-106		331-043-382-126	331-043-412-122	
		NAB (IEC2)	-10 dB	333-043-382-106	333-043-412-102		333-043-382-122	333-043-412-128	
	15 in/s	IEC (IEC1)	0 dB	341-043-482-100	341-043-512-106		341-043-482-126	341-043-512-122	
		NAB (IEC2)	0 dB	343-043-482-106	343-043-512-102		343-043-482-122	343-043-512-128	
30 in/s	AES (IEC2)	0 dB	351-043-482-107	351-043-512-103	170 \$	351-043-482-123	351-043-512-129	250 \$	
1 in	3.75 in/s	IEC & NAB	-10 dB	421-043-382-102	421-043-412-108	265 \$	421-043-382-128	421-043-412-124	415 \$
	7.5 in/s	IEC (IEC1)	-10 dB	431-043-382-109	431-043-412-105		431-043-382-125	431-043-412-121	
		NAB (IEC2)	-10 dB	433-043-382-105	433-043-412-101		433-043-382-121	433-043-412-127	
	15 in/s	IEC (IEC1)	0 dB	441-043-482-109	441-043-512-105		441-043-482-125	441-043-512-121	
		NAB (IEC2)	0 dB	443-043-482-105	443-043-512-101		443-043-482-121	443-043-512-127	
30 in/s	AES (IEC2)	0 dB	451-043-482-106	451-043-512-102	305 \$	451-043-482-122	451-043-512-128	475 \$	
2 in	7.5 in/s	IEC (IEC1)	-10 dB	531-043-382-108	531-043-412-104	375 \$	531-043-382-124	531-043-412-120	570 \$
		NAB (IEC2)	-10 dB	533-043-382-104	533-043-412-100		533-043-382-120	533-043-412-126	
	15 in/s	IEC (IEC1)	0 dB	541-043-482-108	541-043-512-104		541-043-482-124	541-043-512-120	
		NAB (IEC2)	0 dB	543-043-482-104	543-043-512-100		543-043-482-120	543-043-512-126	
	30 in/s	AES (IEC2)	0 dB	551-043-482-105	551-043-512-101		420 \$	551-043-482-121	

\* Because of tape saturation at the higher frequencies at lower speeds, 3.75- and 7.5 in/s tapes are recorded at -10 dB.

Prices are in US \$, and do not include shipping or applicable taxes.

Prices may be changed without notice.