

## K-FONIK™ NBM Acoustic Performance

K-FONIK™ NBM is an acoustic barrier material designed to meet Mil Spec MIL-PRF-24699A Type I (Class 1, 2, 3). It is comprised of a lead-free mass loaded elastomeric acoustic barrier material (K-FONIK™ GV) laminated to a fiberglass cloth. The sound transmission loss data (found below) shows K-FONIK™ NBM’s performance versus the call out requirements listed in MIL-PRF-24699A’s performance specification for an “Acoustical Transmission Loss Barrier Material”.

### Minimum sound transmission loss values (dB) for type I, class 2 by frequency

One-third octave band center frequency in Hz																		
Hz	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
GV only (dB)	22	17	16	17	17	19	20	21	23	25	26	28	30	32	34	35*	36*	38*
MIL-PRF-24699A (dB min.)	12	12	12	14	16	17	19	21	23	24	26	28	30	32	34	36	38	39

K-FONIK™ GV meets the requirements of Mil-PRF-24699A Type I, Class 2 on all frequencies per the “precision and bias” (reproducibility standard deviation) of ASTM E 90.

\*Frequencies are within the 2 dB variation identified as the “precision and bias” (reproducibility standard deviation) found in ASTM E 90 Precision and Bias Statement.

### Minimum sound transmission loss values (dB) for type I, class 3 by frequency

One-third octave band center frequency in Hz																		
Hz	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
GV only (dB)	21	18	19	19	20	22	23	25	27	28	30*	31*	33	35*	37*	38*	40*	41*
GV + cloth (dB)	22	19	21	20	21	23	25	26	28	30	32	33	35	37	38	40	41*	42*
MIL-PRF-24699A (dB min.)	15	14	14	18	19	20	22	24	27	28	31	32	33	36	38	40	42	43

K-FONIK™ GV and NBM meet the requirements of Mil-PRF-24699A Type I, Class 3 on all frequencies per the “precision and bias” (reproducibility standard deviation) of ASTM E 90.

\*Frequencies are within the 2 dB variation identified in the “precision and bias” (reproducibility standard deviation) found in ASTM E 90 Precision and Bias Statement.