



### Measurement of Sound Absorption (coefficient $\alpha$ )

The sound absorption coefficient is the percentage of incident sound energy that, rather than being reflected, is converted to other forms of energy such as heat.

<b>Material:</b>	C035-xx
<b>Applicant:</b>	(none)

<b>Date:</b>	11-10-2007
<b>Measured by:</b>	PAN

<b>Measure condition:</b>	
Measurements require careful control of temperature and humidity in an impedance tube in accordance with ISO 10534-2.	
Distance mic. 1:	450 mm
Distance mic. 2:	375 mm

Hz / $\alpha$	10 mm	20 mm	30 mm	40 mm	50 mm
125	0,014	0,024	-	-	-
160	0,027	0,043	-	-	-
200	0,035	0,056	-	-	-
250	0,043	0,069	-	-	-
315	0,046	0,079	-	-	-
400	0,050	0,094	-	-	-
500	0,064	0,122	-	-	-
630	0,081	0,171	-	-	-
800	0,094	0,205	-	-	-
1.000	0,107	0,291	-	-	-
1.250	0,140	0,399	-	-	-
1.600	0,181	0,593	-	-	-
1.715	0,186	0,651	-	-	-

