



Measurement of Sound Absorption (coefficient α)

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.

Material:	RE100-AL
Applicant:	(none)

Date:	11-10-2007
Measured by:	PAN

Measure condition:	
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 / α	10 mm	20 mm	30 mm	40 mm	50 mm
125	-	0,018	0,023	0,026	0,029
160	-	0,047	0,040	0,050	0,053
200	-	0,162	0,056	0,208	0,094
250	-	0,617	0,089	0,419	0,214
315	-	0,329	0,169	0,155	0,777
400	-	0,136	0,538	0,114	0,220
500	-	0,253	0,308	0,181	0,216
630	-	0,147	0,316	0,386	0,331
800	-	0,169	0,197	0,325	0,338
1.000	-	0,212	0,281	0,206	0,301
1.250	-	0,436	0,403	0,287	0,309
1.600	-	0,359	0,317	0,255	0,363
1.715	-	0,281	0,323	0,229	0,315

