

FLEXIBLE FOAM SHEET BROADBAND MICROWAVE ABSORBER

Description :

Eccosorb AN is a lightweight, flexible, foam sheet broadband microwave absorber. It is available in 6 standard grades, depending upon the lowest desired frequency of operation in the frequency range from 600 MHz - 40 GHz. Eccosorb AN is designed to reflect less than -17 dB of normal incident energy above specified frequencies and relative to a metal plate.

Application :

Eccosorb AN is being used for reducing crosstalk between adjacent antennas, shrouding antennas to improve the antenna patterns and undesired back lobes, as well as selective shadowing of parts of a target for RCS measurements.

It can also be used for shadowing posts and supports in anechoic chambers, and as absorbing blanket for testing radar systems without harm to personnel.

For isolation of components or antennas by means of insertion loss, it can be used without a metal backing.

Physical Properties :

	AN
Front surface colour	White
Back surface colour	Black
Max. Service Temperature(°C)	90
Power Handling (W/cm ²)	0.15
Fire Retardancy	UL94-HBF



Nominal dimensions and weight of Eccosorb AN :

Grade	Total Thickness (cm)	Nominal weight (kg/pc)
AN-72	0.6	0.25
AN-73	1.0	0.50
AN-74	1.9	0.70
AN-75	2.9	0.80
AN-77	5.7	1.50
AN-79	11.4	2.95

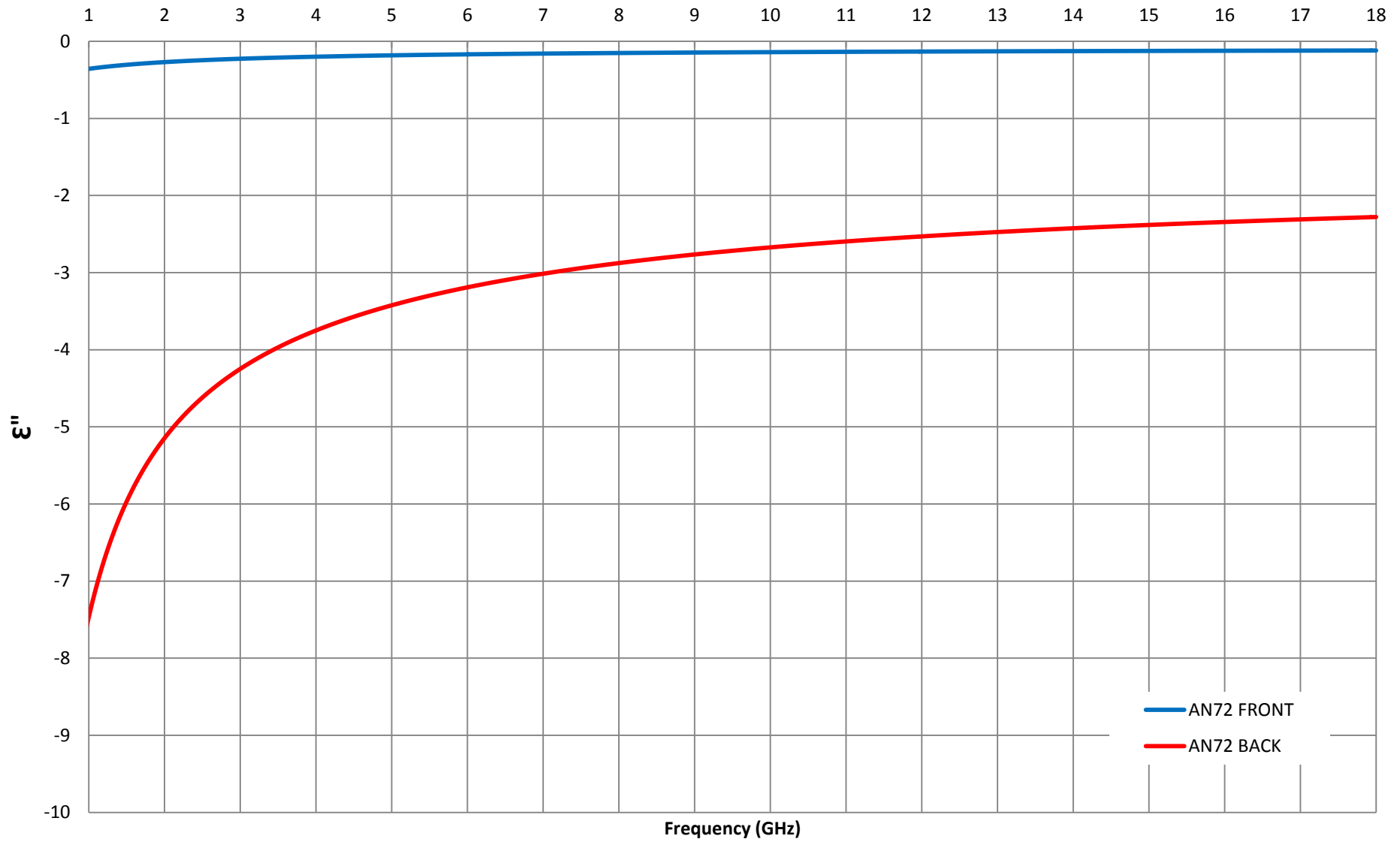
Examples for use are radar antenna nacelles, anechoic enclosures, antenna or target test mounts in radar ranges, and inside or outside horn antennas.

Eccosorb AN can also be used to produce desired modifications in antenna patterns such as the reduction of side-lobes and back-lobes. Eccosorb AN is equally effective against linear, elliptical, or circular polarization and relatively insensitive to incidence angles out to 70 degrees.

UL 94 HBF rated, does not support fungal growth per MIL-STD- 810E, 0.15W/cm² power handling

* Blue top coats are available

ECCOSORB AN72
PERMITTIVITY_ε''



Eccosorb AN-77-Weatherproof Angles of Incidence

