

ECCOSORB® ANW used as radiation shield inside antenna test HATS

Hooded Antenna Test Sets (HATS) are designed to shield RF radiation, prevent RF power leakage and to provide safety to personnel during ground based antenna testing. Prior to deployment, plane or missile antenna systems are tested and their functionality verified. The test set is then removed from the aircraft/missile.

Internally, these HATS are equipped with a high loss absorptive material such as ECCOSORB® HR, ECCOSORB® AN or a weatherproofed ECCOSORB® ANW. These materials are specifically designed to reduce overall reflections inside the unit. Selection of the proper absorber can vary greatly depending on operational frequencies and environmental conditions and it is highly recommended that you consult with an Emerson & Cuming Microwave Products Applications Engineer for assistance with your design.



This coupler HAT above sits atop a missile nose cone while the part at left slides over the nosecone of an aircraft. Both allow field technicians to safely exercise the missile electronics (guidance) systems.

	Reflectivity range (>20 dB)	Thickness Inch (cm)
AN-72 or ANW-72	>20 GHz	0.24 (0.6)
AN-73 or ANW-73	>7.5 GHz	0.39 (1.0)
AN-74 or ANW-74	>3.5 GHz	0.75 (1.9)
AN-75 or ANW-75	>2.4 GHz	1.14 (2.9)
AN-77 or ANW-77	>1.2 GHz	2.24 (5.7)
AN-79 or ANW-79	>600 MHz	4.49 (11.4)

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