

 MINISTERIO DE DEFENSA	SECRETARIA DE ESTADO DE DEFENSA  INSTITUTO NACIONAL DE TECNICA AEROSPACIAL	Doc. Nº.: EM-INS-4943-003-INTA	
		Page: 1 of 2	Issue: 01

GENERAL DATA	
Equipment / System name:	POLYBENCH mmW
Equipment / System number:	-
Alias:	POLYBENCH mmW
Location:	Building INTA B-10
Picture(s):	

TESTING CAPABILITIES	
Types of tests that can be carried out in the Facility	Measurement of the reflection and transmission coefficient of materials Electromagnetic absorption measurement of materials Electromagnetic characterization of materials in free space Research in new measurement techniques
Maximum dimensions of the equipment under test	500 mm x 500 mm
Restrictions / Limitations	N/A
Remarks	Horizontal Polybench dimensions: 1,58 m x 0,8 m

TECHNICAL CHARACTERISTICS	
General Characteristics	High accuracy facility Normal Incidence to the sample Possibility of exchanging different types of sample holders and antennas Flexibility to measure samples of different geometries and sizes
Ability to observe very small variations in the coefficient of reflection and transmission	$\leq 0,1$ dB
Test frequency	50 GHz – 110 GHz
Distance probes - sample	4 cm
Complete polarimetric capacity	Copolar and Crosspolar

DRAWINGS / SCHEMES (if applicable)

N/A