

SERVICE CODE: 883471

CHARACTERIZATION AND GROWTH OF THIN FILMS

2023 Rates							
CONCEPT	CUSTOMER						
	ICMM		CSIC		CSIC Joint Centers (CIF no CSIC)	Spanish public Universities, IMDEA and OPIS	OTHERS
	EUROPEAN PROJECT	NATIONAL PROJECT	EUROPEAN PROJECT	NATIONAL PROJECT			
Infrared Spectroscopy Characterization: FTIR Spectroscopy (€/hour)	42.42	0.53	42.42	0.62	0.62	110.05	141.49
Physical Vapour Deposition - Electron beam: Film evaporation (€/hour)	72.39	23.73	72.39	27.83	27.83	130.80	143.25
Hardness determination: Vickers, Rockwell, Brinell: Nanoindentation Hardness determination-Er (€/hour)	42.42	10.69	42.42	12.54	12.54	87.00	124.29
Emissivity measurements: Emissometer (€/hour)	33.89	6.33	33.89	7.42	7.42	52.10	57.07
Profilometry: Contact Profilometry (€/hour)	33.89	9.70	33.89	11.38	11.38	65.78	72.04
Profilometry: Optical Profilometry (€/hour)	46.70	9.70	46.70	11.38	11.38	74.23	81.80
Physical Vapor Deposition Sputtering Magnetron: Sputtering film deposition (€/hour)	72.39	27.31	72.39	32.04	32.04	129.84	142.00
Raman Spectroscopy: Raman Spectrum (€/hour)	72.39	7.28	72.39	8.54	8.54	103.31	118.07
UV-VIS-NIR Spectroscopy - Visible spectral reflectometry: UV-Vis-NIR Spectrophotometer (€/hour)	42.42	19.51	42.42	22.89	22.89	110.12	141.58
Thermal treatment of materials: Thermal treatment under controlled atmosphere (€/hour)	42.42	23.75	42.42	27.86	27.86	94.21	134.59
Determination of wear resistance: Pin-On-Disc (€/hour)	51.69	8.44	51.69	9.90	9.90	78.93	112.75

NOTE: Rates do not include VAT if applicable.