

Chair of Inorganic Chemistry I – Professor Dr. Josef Breu

Equipment Coating analysis

| Equipment | Type | Characteristics | Advisor |
|-----------------------|---|--|------------|
| Permeation test bench | Brugger GGT | transmission rates of non-corrosive gases detection limit: 0.5 cc/(m ² /day) temperature range: 12- 40°C | Habel |
| Permeation test bench | Mocon OX-Tran 2/21 | oxygen transmission rate temperature range: 5 • 10 ⁻² cc/(m ² /day/bar) detection limit: 5 - 50°C humidity range: 35 – 90 % rH | Habel |
| Permeation test bench | Mocon OX-Tran 2/21 M10x | oxygen transmission rate detection limit: 5 • 10 ⁻⁴ cc/(m ² /day/bar) temperature range: 5 - 50°C humidity range: 35 – 90 % rH | Habel |
| Permeation test bench | Mocon Permatran- C 4/41 | CO ₂ transmission rate detection limit: 1 cc/(m ² /day) temperature range: 5 - 50°C humidity range: 35 – 90 % rH | Habel |
| Permeation test bench | Mocon Permatran- W 3/33 | water vapor transmission rate detection limit: 5 • 10 ⁻³ g/(m ² /day) temperature range: 5 - 50°C humidity range: 35 – 90 % rH | Habel |
| Permeation test bench | Sempa HiBarSens | water vapor transmission rate detection limit: 10 ⁻⁶ g/(m ² /day) temperature range: 5 - 50°C humidity range: 50 – 90 % rH | Habel |
| Cone Calorimeter | FTT iCone Calorimeter | characterisation of heat release rate, CO ₂ / CO- and fume emission | Edenharter |
| UL-94 test chamber | FTT Horizontal/Vertical Flame Chamber UL94 | simple flammability tests for polymers and foams | Edenharter |
| Limiting Oxygen Index | FTT Oxygen Index Apparatus ISO 4589-3 – NES 715 | flammability tests for polymers | Edenharter |