

José-Manuel Martins

Education

University of Le Mans

University of Paris VI

Ph.D. in Physics and Chemistry of Polymers



Profile

SEG Diélectriques

Technical and Industrial Manager R&D Manager – Materials for electrical insulation – Electrical Engineering HSE Manager

Rhodia Silicones

R&D Engineer Laboratory Manager – Industrial assistance, pilot, products, processes and industrialization Project Leader

University of Bayreuth (Germany) - Henkel

Ph.D. in Physics and Chemistry of Polymers

Professional background

Master Degree in Physics and Chemistry of Polymers

R&D Engineer – Materials for paint & varnish coatings Head of Analytical Laboratory

University of Le Mans

Institute for Polymers Applied Research

R&D Engineer – Materials for paint & varnish coatings, elastomers and rubbers, etc. Head of Analytical Laboratory

60 years old Seniority : 12 years, associate English Portuguese

Chemistry, Petrochemistry, physics and formulation of Polymers

Plastics and rubbers

Resins, sealants, paints and coatings

Glues and adhesives

Materials for electrical insulation, dielectrics

Industrial processes and products

Project management

Health, Safety and Environment

Corrosion

REACH

Certified CRAC Expert Approval N°14 (Physico-chemistry of materials/corrosion)

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Ph.D. in Physics and Chemistry of Polymers

Key areas of expertise

Chemistry – Petrochemistry – Physics – Materials – Plastics

- Polymers, plastics, rubbers
- Formulations (inks, varnishes, resins, adhesives, paints, coatings, etc.)
- Structural properties and performance of materials
- Materials processing and applications
- Material design, manufacturing, formulation, or processing failings, ageing (coating resins, seals, bonding, concrete, composites, etc.)
- Accidental contaminations of products
- Adhesion failures
- Breakdown of electrical insulation products
- Material processing defects (coating resins, etc.)
- Waterproofness damages: infiltration, SEL
- Automotive: technical failures, suppliers, recalls, etc.

Corrosion

- Corrosion of storage tanks for varnishes, solvents, gases, etc.
- Corrosion of lagging and piping
- Corrosion of reinforcing bars and metal parts (concrete, gates, etc.)
- Surface treatment
- Standard tests (salt spray, etc.)
- Ovens/refractory materials and ceramics: heat treatments, construction
- Packaging: plastic, glass, complex films, packaging items, caps

Industrial processes

- Chemicals and derivatives manufacturing plants
- Impacts of manufacturing processes (reactors, mixers, coating ovens, ...) on product quality (polymerisation failures, cracking, folds, tears, blistering, delamination, etc.)
- Process malfunctions resulting in fires (static electricity, etc.)
- Treatment plants (physicochemical separations, biological treatment, water treatment)
- Traceability conformities analytical methods non-destructive testing

Engineering – Miscellaneous

- Project management, site monitoringMethodologies for
- analysis/diagnosis/audits/troubleshootings
- Financial claims, studies of material and consequential losses, operating losses, withdrawal operations (injunction, prevention, safety, consumer warning, etc.)
- Health, Safety and Environment (HSE), management & prevention of industrial risks, health risk, toxicity for environment
- Operational training and support advice related to the areas of expertise and risk management