

# ELECTRICALLY CONDUCTIVE AND STATIC DISSIPATIVE COMPOUNDS MEDICAL INDUSTRY

PREMIX



## **FOR BETTER HEALTHCARE**

### **PRE-ELEC®: level detection**

- for pipette tips in diagnostics
  - high MFI, enables multi-cavity mould constructions
  - contamination free

### **PRE-ELEC®: metal replacement**

- for ECG-electrodes
  - highly conductive material
  - X-ray compatible

### **PRE-ELEC® ESD: precise and non-static powder dosage**

- for inhalers
  - USP class VI approved grades

## **LOOKING FOR A TAILORED SOLUTION?**

**We also offer several other options for conductive fillers and a wide range of polymers to choose from. Our expertise is at your service!**

# We offer just one product. A solution. Generating this solution is our job. Our way of working is based on strong dedication to our customers: We share the targets, but the challenge is ours.

## We care about your health

Health is the most valuable thing in the world. Health-related operation leaves no room for mistakes. Premix is involved in making millions of medical analyses. A disposable pipette tip made of our electrically conductive plastic will make no mistakes. It will perform a correct analysis, every time.



## Electrically conductive and static dissipative compounds

Premix's electrically conductive materials are widely used in analysis and dosing equipment. Conductive PRE-ELEC® compounds enable liquid level detection to guarantee accurate diagnostics.

Dissipative PRE-ELEC® ESD compounds are used in dust dosing applications to provide accuracy in medicine dosing systems.

Premix masterbatches and special compounds are available to increase the hydrophobic behavior of low retention pipette tips, cuvettes and other liquid holders.

## PREMIX – Innovative and reliable product concepts

Premix is the leading specialist in electrically conductive plastics and other unique plastic solutions. We have gained profound knowledge in carbon black dispersion and polymer modification.

Over the years we have built up a comprehensive product portfolio covering the whole resistance spectrum ranging from electrostatic dissipative IPD compounds to highly conductive EMI elastomers.

**Fast cycle times.** High-flow PRE-ELEC® PP compounds for multi-cavity molds and complex product constructions.

$\Omega$	Resistance	
$10^{16}$	Insulating	POLYMERS
$10^{14}$		
$10^{12}$		
$10^{10}$	Electrostatic Dissipative	PRE-ELEC® ESD IDP compounds
$10^8$		
$10^6$		
$10^4$	Electrostatic Conductive	PRE-ELEC® carbon black and fiber compounds
$10^2$		
$10$		
$10^{-2}$	Highly Conductive	PRESEAL® highly conductive elastomers METALS
$10^{-4}$		
$10^{-6}$		

Premix's comprehensive product portfolio covers the whole resistance spectrum.

Today, our products are widely used in electrostatic discharge (ESD), explosive atmospheres (ATEX) and metal replacement applications. Along with the medical industry, we also serve many customers in the automotive, chemical, construction, electronics and mining industries.

We are committed to creating innovative and reliable plastic raw material solutions for our customers' specific needs. The best success stories are generated from long-term customer partnerships.



## Accurate drug dosage in flow channels.

PRE-ELEC® ESD permanently dissipative compounds prevent adhesion of drug particles in flow channels by eliminating electric charge accumulation.



**Replacing metal in ECG-electrodes.** Highly conductive PRE-ELEC® PP compounds for disposable ECG-electrodes.



**PREMIX OY (HEAD OFFICE)**

P.O. Box 12  
Muovitie 4  
FI-05201 Rajamäki  
FINLAND  
Tel. +358 9 878 041  
Fax +358 9 8780 4400  
firstname.lastname@premixgroup.com  
www.premixgroup.com

**PREMIX EUROPE GmbH**

Sitz der Gesellschaft:  
41564 Kaarst, GERMANY  
HBR: 14540 (Amtsgericht Neuss)  
Geschäftsführerin: Frau Hanna Ristola  
Büro: Nordhackstedter Str. 26c  
24980 Schafflund, GERMANY  
Tel: +49 0 4639 - 7832 15  
Fax: +49 0 4639 - 7832 16

CARING. CREATING. COMMITTED.

**We Care. We know that we can make good things even better. We Create by challenging ourselves every day. We are Committed to doing things better. This is our way of fulfilling our promise. Both to ourselves and to our customers.**