WITH US, YOU WILL GET ESD PERMANENTLY UNDER CONTROL!

BOSCH LABORATORIES
LIQUID HIGHTECH SOLUTIONS

It all depends on the right formula!

On the basis of our know-how and experience in anti-static agent research for many years we have created numerous solutions which were successfully placed in an innovative and growing segment where we will continue to work with success.

Our extensive experience and our flexibility help us to develop individual problem solutions for our customers in addition to traditional coating methods.

Our aim is it to offer production-optimized complete solutions and beyond this to give extra properties to each material, making it more competitive in customer benefit and quality.

Ultimately, our products promise competitive advantage and additional value.

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RESEARCH | PRODUCTION | DISTRIBUTION

Worldwide largest product range of bio-based liquid coating agents for the thermoplastic, textile and paper industry

Anti-static | Anti-fog | Anti-block | Anti-scratch

High-efficient and if required multifunctional

PRODUCT DESCRIPTION

of LR 44 & LR 44 E for flexible and hard Packaging

ANTISTAT LR 44 (RTU)

Chemical Basis:
Surface-active and anti-electrostatic substances based on vegetable fat acid diluted in aqueous solution.

Character / Appearance: Transparent, clear liquid

Properties:
• Ionic character: cationic-active
• Density (g/ml): 1,0 g/cm³ (at 20°C)
• Viscosity: approx. 1,0 mPas (at 25°C)
• pH: 5,0 – 6,0

ANTISTAT LR 44 E (RTU)

Chemical Basis:
Surface-active and anti-electrostatic substances based on vegetable fat acid diluted in ethanol.

Character / Appearance: Transparent, clear liquid

Properties:
• Ionic character: cationic-active
• Density (g/ml): 0,80 g/cm³ (at 20°C)
• Viskosity: approx. 1,0 mPas (at 25°C)
• pH: 5,5

The products of our LR 44-series are a new development of high-efficient anti-static-coatings. They either already have or they can be provided with additional functions such as, for example, anti-block or anti-fog characteristics.
High performance and a large field of application are guaranteed, because our LR 44 product series can be successfully used for flexible and solid thermoplastic materials in Food- and Non-Food Packaging.

PRODUCT AND APPLICATION ADVANTAGES

of ANTISTAT LR 44 & ANTISTAT LR 44 E

• Immediate and complete elimination of static electricity (ESD control)

• Reduction of surface resistance up to 10^{-7} and electrical charge reduction < 0,5 kV

• High performance even in great variation of temperature and low humidity (<20%)

• No negative influence on bond strength and wet laminating

• Extreme resistance to mechanical abrasion

• High-efficiency long term antistatic finish for more than 2 years

• High transparency and streakfree application / high quality finish

• Very good printability by keeping brilliance

• No negative effect during deep-draw process

• No disturbance of haptic, smell and taste

• Non-toxic, completely biodegradable, environmentally friendly and safe to handle

• Conform to the strict new European plastic directive for direct food-contact 10/2011/EC & 1935/2004

• Multifunctional characteristics (Anti-static/Anti-block/Anti-scratch/Anti-fog)

FIELDS OF APPLICATION

Advantages of LR 44 product series versus Masterbatch additives:

1. Immediate discharge capability, because there is no migration needed

2. No migration into batch material and no outgassing

3. Longer antistatic effect (> 2 years) due to stable coating without migration

4. No change in product, because no additional implementation of different additives in plastic material

5. Extreme resistance to mechanical abrasion

6. Improved economic efficiency due to consistent quantitative product use independent from film thickness

7. No time-consuming mixing adaptions necessary during production process

8. Bio-based, free of polymers, biodegredable and physiologically safe