



Use of Laponite® as an antistatic agent

Fields of use

There are two areas where Laponite® is used as an antistatic agent:

- To produce antistatic finished articles- such as paper, glass and polymer films. Laponite® is usually applied as a coating to a material in order to produce an antistatic film on the surface of a product.
- To act as a process aid- processes that involve handling of small particles in dry environments can be liable to be affected by a build-up of static electricity. Laponite® can be added into such a system to dissipate this static charge. The finished product from the process will not normally be classified as an antistatic material.

Grades

All Laponite® types are electrically conductive and can be used to develop antistatic effects. Laponite® sol grades are particularly useful for using to make antistatic treatments as they can be prepared as concentrated low viscosity dispersions that are easy to apply.

Recommended grades are Laponite® RDS, Laponite® JS, Laponite® S482 and Laponite® SL25.

Use level

- To make an antistatic surface treatment- typical use level is at a coat weight of 1g.m^{-2} to 5g.m^{-2} .
- As an antistatic process aid- typical use level is from 0.1% to 1.0% of the total dry mass of material that is being handled by the process.

Applications/ substrates where Laponite® can be used as an antistatic agent include:

Thermal printing media, paper and polymer film	Polymeric fibres and materials, such as non-wovens
Packaging materials for electronics	Speciality printing papers
Electrographic paper	Antistatic abrasive base paper
Photographic media	Processing of paper fibre
Polymer packaging film	Processing of leather
Glass sheets and fibres	Processing of seeds

For more information- contact the Laponite team on help@laponite.com

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