

Antiwear Agent Pushing® DB401(DB403)

Brief

Chemical Properties of *fluororesin*:

1. Stable chemical properties: light & weather fastness, anti-corrosion
2. Low surface tension: 17 dyn/cm, contamination resistance
3. Good lubricity: anti-adhesion
4. Good thermal stability: use temperature > 250°C, deposition temperature > 420°C

Product Features

Pushing® DB401(DB403) is white fluid superfine powder PTFE, mainly used for processing agent of plastics and rubbers (elastomer).

Improve wear resistance, prevent scratches on surface and reduce wear.

Improve the corrosion resistance and prolong the life of the material.

Improve the non-stickiness and minimize the surface deficiency of products.

Improve the sliding property of injection products.

Reduce the surface friction coefficient.

Reduce noise and adhesion.

The product has small particle size and end product has beautiful appearance.

It can also be used separately as a solid lubricant and mold release agent.

Physical and Chemical Properties

Product Grade:	DB403	DB401
PTFE content:	PTFE	PTFE
Molecular mass (g/mol):	10,000-30,000 g/mol	10,000-30,000 g/mol
Appearance:	white granular	white granular

Apparent density (g/L):	310	425
Average particle size (μm):	≤5	12
Under 20μm(%):	≥99	≥99
Specific surface area (m²/g):	≥6	≥5
Whiteness:	≥95	≥95
Melting point (°C):	327±5°C	327±5°C
Water content(%):	≤0.03	≤0.03
TGA(%):	≤0.15	≤0.15
Standard specific gravity at 23°C:	2.2±0.1	2.2±0.1

Production Flow

Materials → Smash, Filter → Radiation → Grinding → Drying → Filter → Packing

Product Attribute

Moisture absorption & deliquescence in air, please seal.

Application

Mainly applied for modification of PC、PC/ABS、HIPS、PA、POM、PBT and ETC;
Mainly used for additives of coating, ink, thermo and thermosetplastics, rubber, dry lubricants and grease.



Power tools



Socket blades

Processing Guide

DB401(DB403) is widely used in wear-resisting & anti-fouling modification of engineering plastics. DB401(DB403) superfine powder is very easy to mix with resin.

In the use of plastics and rubber resin, the powder can be mixed with resin by 5-20% through double-screw extruder or can also be added to the melting resin.

Note: Be attention to disperse fine powder and mix well to achieve the best effect.

In the use of coating and ink, the additive amount is 0.25-10%; dispersion or sand grinding with the solvents and other pigments at high speed;

In the use of grease, it also requires high speed dispersion or sand grinding.

Shelf Life

2 years

Packaging

Net 25kg/drum

Packed in export-oriented kraft drum bound with iron hoop

Lined with PE bag inside

Disclaimer:

All the data above are obtained from standard samples under the dry condition of our lab, just for reference. Because various raw materials and processing progress are beyond our control, customers should confirm by themselves whether the selected grades are applicable. Since there are many uncertainties beyond our knowledge and control, our company is not responsible for any loss or injury based on the above information.