



PTFE Powders

PTFE Dispersions



Fuzhou Topda New Material Co., Ltd

福州泰普达新材料有限公司

## PTFE MICROPOWDERS

Polytetrafluoroethylene (PTFE) micro powder is white powder with a molecular weight of 30,000-200,000 and a particle size of 1-20  $\mu\text{m}$ . It not only basically maintains the excellent properties of PTFE, but also has many unique properties, such as high crystallinity, good dispersibility, easy to be mixed with other materials evenly. Therefore, it is widely used in the blending modification of polymer materials to improve the lubricity, wear resistance, non-stick performance and flame retardancy of the host materials, so that the performance of the host materials is significantly improved.

CAS No: 9002-84-0



Product Code	Particle Average Size( $\mu\text{m}$ )	Average Bulk Density(g/L)	Specific Surface Area( $\text{m}^2/\text{g}$ )	Whiteness	Main Function	Main Applications
TPD-503S	~3.5	$\leq 450$	~4.5	$\geq 98\%$	1. Increase Slip 2. Anti-wear 3. Anti-scratch	1. Inks 2. Coatings & Paints
TPD-504S	~4.2	$\leq 450$	~4.0	$\geq 98\%$	1. Increase Slip 2. Anti-wear 3. Anti-scratch	1. Inks 2. Coatings & Paints
TPD-505	~5.0	$\leq 450$	~3.0	$\geq 95\%$	1. Increase Slip 2. Anti-wear	1. Lubricants and grease 2. Rubbers 3. Plastics

## Professional supplier of fluorinated materials

						4. Coatings & Paints
TPD-511	~11.0	≤400	~2.5	≥98%	1. Increase Slip 2. Anti-wear	1. Plastics 2. Rubbers
TPD-505H	~5.5	≤600	~2.0	80-95%	1. Increase Slip 2. Anti-wear 3. Anti-scratch	1. Plastics 2. Rubbers
TPD-515H	~15.0	≤650	~2.0	80-95%	1. Increase Slip 2. Anti-wear 3. Anti-scratch	1. Plastics 2. Rubbers
TPD-603S	~3.0	≤350	~10.0	≥99%	1. Thickening 2. Increase Slip	1. Lubricants and grease 2. Coatings & Paints
TPD-604S	~3.5	≤300	~13.0	≥99%	1. Thickening 2. Increase Slip	1. Lubricants and grease 2. Coatings & Paints

## PTFE MICROPOWDERS PFOA/PFOS FREE

Product Code	Particle Average Size(μm)	Average Bulk Density(g/L)	Specific Surface Area(m <sup>2</sup> /g)	Whiteness	Main Function	Main Applications
TPD-503SA	D50: 1.0~2.9	380	3.0	≥98%	1. Increase Slip 2. Anti-wear 3. Anti-scratch	1. Lubricants and grease 2. Inks 3. Rubbers 4. Plastics 5. Coatings & Paints

## Professional supplier of fluorinated materials

---

TPD-505SA	D50: 3.0~5.0	400	2.0	$\geq 98\%$	1. Increase Slip 2. Anti-wear 3. Anti-scratch	1. Inks 2. Rubbers 3. Plastics 4. Coatings & Paints
TPD-508SA	D50: 5.1~8.0	425	1.5	$\geq 98\%$	1. Increase Slip 2. Anti-wear	1. Inks 2. Rubbers 3. Plastics 4. Coatings & Paints
TPD-512SA	D50: 8.0~12.0	450	1.0	$\geq 98\%$	1. Increase Slip 2. Anti-wear 3. Anti-scratch	1. Plastics 2. Rubbers
TPD-513SA	D50: 11.0~13.0	460	1.0	$\geq 98\%$	1. Increase Slip 2. Anti-wear 3. Anti-scratch	1. Plastics 2. Rubbers
TPD-605SA	D50: 3.0~5.0	300	10.0	$\geq 98\%$	1. Thickening 2. Increase Slip	1. Lubricants and grease 2. Coatings & Paints
TPD-608SA	D50: 5.0~8.0	350	10.0	$\geq 98\%$	1. Thickening 2. Increase Slip	1. Lubricants and grease 2. Coatings & Paints

Note:

“5”: Suspension Polymerization

“6”: Dispersion Polymerization

“H”: Recycled Materials

“S”: Special Modification Treatment

“A”: PFOA/PFOS free

## Professional supplier of fluorinated materials

---

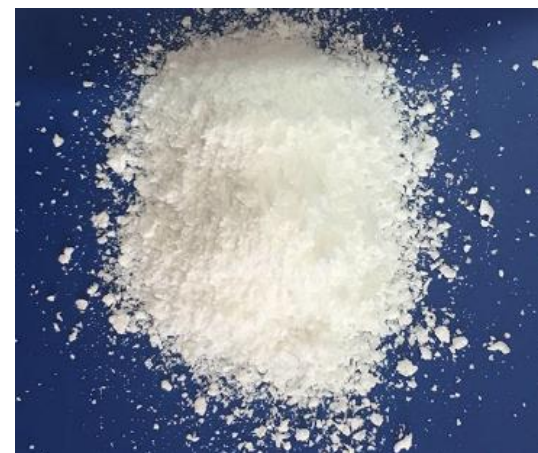
If you are not sure which PTFE Micropowders are suitable for your applications, you are welcome to send email to [info@fluorochemie.com](mailto:info@fluorochemie.com) to consult us.

### PTFE NANOPOWDERS PFOA/PFOS FREE

Product Code	Particle Average Size( $\mu\text{m}$ )	Average Bulk Density(g/L)	Frictional Coefficient	Molecular Weight	Whiteness	Main Applications
TPD-500NA	< 1.0	410 $\pm$ 10	0.016-0.02	20,000-30,000	$\geq$ 99%	1. Dry lubricants 2. Lubricants and grease 3. Inks 4. Coatings & Paints

## PTFE ANTI-DRIPPING AGENT

PTFE Anti-dripping agent is mainly used in plastic materials that require flame retardant grade up to V0. It can prevent melting dripping and improve flame retardant performance. It can still meet the requirements of standard UL V-0 when reducing the amount of flame retardant, and at the same time reduce costs and enhance product competitiveness. High molecular weight PTFE(molecular weight of about 4 million to 5 million) fibrosis under the shear force of the screw to form a network structure, thus playing a role in anti-dripping.



Product Code	Type	PTFE Content	Apparent density, g/L	Main Features
TPD-405	Coated Type	≥50%	400g/L	<ul style="list-style-type: none"><li>● Excellent dispersibility, compatibility and operability</li><li>● No agglomeration at room temperature</li></ul>
TPD-410	Pure Powder	≥99.99%	400g/L	<ul style="list-style-type: none"><li>● Can be added in large amount without any other impurities</li><li>● Less impact on the impact strength due to good compatibility</li></ul>
TPD-450	Pure Powder	≥99.99%	700g/L	<ul style="list-style-type: none"><li>● Can be added in large amount without any other impurities</li><li>● Less impact on the impact strength due to good compatibility</li></ul>

### PTFE DISPERSIONS

PTFE Dispersion TPD-600E Grades are aqueous milky dispersions of very small PTFE particles in water, stabilized by surfactants. They are widely used in various application fields such as impregnation of glass fiber and asbestos, non-stick coating for cooking ware, etc.



Product Code	Solid Content, %	Surfactant, %	pH Value	Viscosity(x10 <sup>-3</sup> Pa.s)	Applications
TPD-601E	60 ± 2	2.0-4.0	8-10	10-75	Impregnation of glass fiber and asbestos, plastic anti-flaming agent.
TPD-602E	60 ± 2	4.0-7.0	8-10	20-40	Impregnation of glass fiber and asbestos, especially for medium and high grade non-stick coating.
TPD-603E	60 ± 2	4.0-7.0	8-10	20-40	Impregnation of glass fiber and asbestos.
TPD-604E	60 ± 2	5.0-7.0	8-10	-	Impregnation of glass fiber and mesh cloth.
TPD-605E	60 ± 2	4.0-7.5	8-10	10-100	Impregnation of glass fiber and asbestos, high grade non-stick coating (free of PFOA).
TPD-606E	60 ± 2	4.0-7.0	8-10	15-75	Non-stick coating with high brightness, high adhesion performance and high film forming requirements.