

Micronized PTFE Market by Application (Inks, Thermoplastics, Coatings, Grease & Lubricants, Elastomers), by Geography - Global Forecast to 2019

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Abstracts

PTFE micro powder or micronized PTFE is made from virgin polytetrafluoroethylene resin or recycled PTFE scrap. PTFE is irradiated using technologies, such as electron beam irradiation or thermal degradation, followed by grinding or milling to form low molecular weight PTFE micro powders that are used as additives for various applications. Micronized PTFE caters to an entirely different market from that of other fluoropolymers. PTFE micro additives are added to coatings, thermoplastics, elastomers, inks, and grease & lubricants in order to enhance their physical as well as chemical characteristics, such as tensile strength, wear resistance, lubricity, and flame retarding properties. The use of PTFE micro powders as additive has been increasing over the years due to increase in the demand of high performance polymers that operate under extreme conditions of temperature and pressure.

Asia-Pacific is the global leader in the consumption of PTFE micro powders and this dominance is expected to continue till 2019. China is the key market in the region, consuming more than half of the demand for PTFE micro powders, followed by Japan, South Korea, and India where consumption is growing at a steadily. Increase in the consumption of PTFE micro powders for inks, coatings, and thermoplastics has been observed in Asia-Pacific due to continued industrialization and rise in the manufacturing sector of the region. Growing innovation and developments in the micronized PTFE consumer industries for better products are directly affecting the rise in the use of PTFE micro powders. The excessive growth and innovation, along with industry consolidations, are projected to ascertain a bright future for the industry in the region.

Inks require different additives in order to achieve the right formulation for usage in different end-user industries. The selection of additives for inks is highly critical because

any deviation from the required properties may result in entire formulation being destroyed. PTFE micro powders in inks are sought out for their value-added properties such as small particle size, abrasion/rub resistance, and blocking. Low molecular weight PTFE micro powders are sometimes referred to as PTFE waxes in the ink industry because they perform similar functions as hydrocarbon waxes do in ink formulations.

This study on micronized PTFE market estimates the market value for PTFE micro powders and projects the same by 2019. As a part of quantitative analysis, the study segments the market by application at country level with the current market estimation and forecast till 2019. The countries covered in the report are China, Japan, India, South Korea, Germany, the U.K. Italy, the Netherlands, and the U.S. The segmentation by application includes inks, thermoplastics, coatings, grease & lubricants, and elastomers. Further as a part of qualitative analysis, the research provides a comprehensive review of major market drivers, restraints, opportunities, winning imperatives, challenges, and key issues in the market. It also includes the company profiling and competitive strategies adopted by different market players, including Shamrock Technologies (U.S.), E.I. DuPont de Nemours & Company (U.S.), Daikin Industries Limited (Japan), Solvay S.A. (Belgium), Micro Powders, Inc. (U.S.), and 3M (U.S.), Asahi Glass Co. Ltd. (Japan), Chenguang Research Institute of Chemical Industry (China), Gujarat Fluorochemicals Limited (India), and Shanghai 3F New Materials Company Limited (China).

Contents

1 INTRODUCTION

- 1.1 OBJECTIVES OF THE STUDY
- 1.2 MARKET SCOPE
 - 1.2.1 MARKET DEFINITION
 - 1.2.2 MARKETS COVERED
 - 1.2.2.1 SCOPE, BY APPLICATION
 - 1.2.2.2 SCOPE, BY REGION
 - 1.2.3 YEAR
 - 1.2.4 CURRENCY
 - 1.2.5 PACKAGE SIZE
 - 1.2.6 LIMITATIONS
- 1.3 STAKEHOLDERS

2 RESEARCH METHODOLOGY

- 2.1 MARKET SIZE ESTIMATION
- 2.2 MARKET CRACKDOWN & DATA TRIANGULATION
- 2.3 MARKET SHARE ESTIMATION
 - 2.3.1 KEY DATA FROM SECONDARY SOURCES
 - 2.3.2 KEY DATA FROM PRIMARY SOURCES
 - 2.3.3 ASSUMPTIONS

3 EXECUTIVE SUMMARY

4 PREMIUM INSIGHTS

- 4.1 ATTRACTIVE MARKET OPPORTUNITIES IN MICRONIZED PTFE MARKET
- 4.2 MICRONIZED PTFE MARKET, BY REGION
- 4.3 MICRONIZED PTFE MARKET IN ASIA-PACIFIC REGION
- 4.4 LEADING COUNTRIES IN THE MARKET, 2013
- 4.5 MICRONIZED PTFE MARKET SIZE, BY LEADING COUNTRY IN TERMS OF GROWTH RATE, 2014–2019
- 4.6 MICRONIZED PTFE MARKET, BY APPLICATION: REGIONAL REVENUE MIX, 2013
- 4.7 LIFE CYCLE ANALYSIS, BY REGION

5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 MARKET SEGMENTATION

5.2.1 MICRONIZED PTFE MARKET, BY APPLICATION

5.3 MARKET DYNAMICS

5.3.1 DRIVERS

5.3.1.1 Increasing penetration in the thermoplastic industry

5.3.1.2 Increasing demand with expanding end-user industries in China

5.3.2 RESTRAINTS

5.3.2.1 Expanding Digital Media Industry

5.3.3 OPPORTUNITIES

5.3.3.1 Growing grease & lubricant industry in the U.S.

5.3.3.2 Expanding China's coating industry

5.3.4 CHALLENGES

5.3.4.1 Stringent environmental regulations

5.3.5 WINNING IMPERATIVES

5.3.5.1 Developing/enhancing micronized PTFE grades for emerging applications

6 INDUSTRY TRENDS

6.1 INTRODUCTION

6.2 VALUE CHAIN ANALYSIS

6.2.1 RAW MATERIALS

6.2.2 MANUFACTURING PROCESS

6.2.3 DISTRIBUTION NETWORK

6.2.4 MARKETING & SALES

6.2.5 END USE

6.3 PORTER'S FIVE FORCES ANALYSIS

6.3.1 THREAT OF NEW ENTRANTS

6.3.2 THREAT OF SUBSTITUTES

6.3.3 BARGAINING POWER OF BUYERS

6.3.4 BARGAINING POWER OF SUPPLIERS

6.3.5 DEGREE OF COMPETITION

6.4 RAW MATERIAL ANALYSIS

6.4.1 FLUORSPAR

6.4.2 HYDROFLUORIC ACID

6.4.3 CHLOROFORM

6.5 PRICE ANALYSIS

7 MICRONIZED PTFE MARKET, BY APPLICATION

- 7.1 INTRODUCTION
- 7.2 INKS
- 7.3 THERMOPLASTICS
- 7.4 COATINGS
- 7.5 GREASE & LUBRICANTS
- 7.6 ELASTOMERS
- 7.7 OTHERS

8 MICRONIZED PTFE MARKET, BY REGION

- 8.1 INTRODUCTION
- 8.2 NORTH AMERICA
 - 8.2.1 U.S.
- 8.3 EUROPE
 - 8.3.1 GERMANY
 - 8.3.2 ITALY
 - 8.3.3 U.K.
 - 8.3.4 NETHERLANDS
- 8.4 ASIA-PACIFIC
 - 8.4.1 CHINA
 - 8.4.2 JAPAN
 - 8.4.3 SOUTH KOREA
 - 8.4.4 INDIA
- 8.5 ROW
 - 8.5.1 BRAZIL

9 COMPETITIVE LANDSCAPE

- 9.1 OVERVIEW
- 9.2 NEW PRODUCT LAUNCHES
- 9.3 EXPANSIONS
- 9.4 JOINT VENTURE
- 9.5 AGREEMENTS & COLLABORATIONS

10 COMPANY PROFILES (OVERVIEW, FINANCIAL, PRODUCTS & SERVICES, STRATEGY, AND DEVELOPMENTS)

10.1 INTRODUCTION

10.2 SHAMROCK TECHNOLOGIES, INC.

10.3 E.I. DUPONT DE NEMOURS & COMPANY

10.4 DAIKIN INDUSTRIES LTD.

10.5 SOLVAY SA

10.6 MICRO POWDER, INC.

10.7 3M

10.8 ASAHI GLASS CO., LTD

10.9 CHENGUANG RESEARCH INSTITUTE OF CHEMICAL INDUSTRY

10.10 GUJARAT FLUOROCHEMICALS LIMITED

10.11 SHANGHAI 3F NEW MATERIALS COMPANY LIMITED (Details might not be captured in case of unlisted companies.)

11 APPENDIX

List Of Tables

LIST OF TABLES

Table 1 MICRONIZED PTFE, BY COMPANY & ITS BRAND

Table 2 PROPERTIES OF MICRONIZED PTFE

Table 3 IMPACT OF GLOBAL MICRONIZED PTFE MARKET DRIVERS (2014–2019)

Table 4 GLOBAL MICRONIZED PTFE MARKET RESTRAINTS (2014–2019)

Table 5 GLOBAL MICRONIZED PTFE MARKET OPPORTUNITIES (2014-2019)

Table 6 HYDROFLUORIC ACID: PRODUCT CHARACTERISTICS

Table 7 CHLOROFORM: PRODUCT CHARACTERISTICS

Table 8 PTFE AVERAGE PRICES, BY REGION (\$/KILO)

Table 9 ADVANTAGES OF USING MICRONIZED PTFE IN DIFFERENT APPLICATIONS

Table 10 GLOBAL MICRONIZED PTFE IN INKS MARKET SIZE (TONS) & (\$MILLION), 2012-2019

Table 11 INKS: MICRONIZED PTFE MARKET SIZE, BY REGION, 2012-2019 (TONS)

Table 12 INKS: MICRONIZED PTFE MARKET SIZE, BY REGION, 2012-2019 (\$MILLION)

Table 13 INKS: MICRONIZED PTFE MARKET SIZE, BY TOP FIVE CONSUMER COUNTRIES, 2012-2019 (TONS)

Table 14 INKS: MICRONIZED PTFE MARKET SIZE, BY TOP FIVE CONSUMER COUNTRIES, 2012-2019 (\$MILLION)

Table 15 GLOBAL MICRONIZED PTFE IN THERMOPLASTICS MARKET SIZE (TONS) & (\$MILLION), 2012-2019

Table 16 THERMOPLASTIC: MICRONIZED PTFE MARKET SIZE, BY REGION, 2012-2019 (TONS)

Table 17 THERMOPLASTIC: MICRONIZED PTFE MARKET SIZE, BY REGION, 2012-2019 (\$MILLION)

Table 18 THERMOPLASTIC: MICRONIZED PTFE MARKET SIZE, BY TOP FIVE CONSUMER COUNTRIES, 2012-2019 (TONS)

Table 19 THERMOPLASTIC: MICRONIZED PTFE MARKET SIZE, BY TOP FIVE CONSUMER COUNTRIES, 2012-2019 (\$MILLION)

Table 20 GLOBAL MICRONIZED PTFE IN COATINGS MARKET SIZE (TONS) & (\$MILLION), 2012-2019

Table 21 COATINGS: MICRONIZED PTFE MARKET SIZE, BY REGION, 2012-2019 (TONS)

Table 22 COATINGS: MICRONIZED PTFE MARKET SIZE, BY REGION, 2012-2019 (\$MILLION)

Table 23 COATINGS: MICRONIZED PTFE MARKET SIZE, BY TOP FIVE CONSUMER COUNTRIES, 2012-2019 (TONS)

Table 24 COATINGS: MICRONIZED PTFE MARKET SIZE, BY TOP FIVE CONSUMER COUNTRIES, 2012-2019 (\$MILLION)

Table 25 GLOBAL MICRONIZED PTFE IN GREASE & LUBRICANTS MARKET SIZE (TONS) & (\$MILLION), 2012-2019

Table 26 GREASE & LUBRICANTS: MICRONIZED PTFE MARKET SIZE, BY REGION, 2012-2019 (TONS)

Table 27 GREASE & LUBRICANTS: MICRONIZED PTFE MARKET SIZE, BY REGION, 2012-2019 (\$MILLION)

Table 28 GREASE & LUBRICANTS: MICRONIZED PTFE MARKET SIZE, BY TOP FIVE CONSUMER COUNTRIES, 2012-2019 (TONS)

Table 29 GREASE & LUBRICANTS: MICRONIZED PTFE MARKET SIZE, BY TOP FIVE CONSUMER COUNTRIES, 2012-2019 (\$MILLION)

Table 30 GLOBAL MICRONIZED PTFE IN ELASTOMERS MARKET SIZE (TONS) & (\$MILLION), 2012-2019

Table 31 ELASTOMERS: MICRONIZED PTFE MARKET SIZE, BY REGION, 2012-2019 (TONS)

Table 32 ELASTOMERS: MICRONIZED PTFE MARKET SIZE, BY REGION, 2012-2019 (\$MILLION)

Table 33 ELASTOMERS: MICRONIZED PTFE MARKET SIZE, BY TOP FIVE CONSUMER COUNTRIES, 2012-2019 (TONS)

Table 34 ELASTOMERS: MICRONIZED PTFE MARKET SIZE, BY TOP FIVE CONSUMER COUNTRIES, 2012-2019 (\$MILLION)

Table 35 GLOBAL MICRONIZED PTFE IN OTHER APPLICATIONS MARKET SIZE (TONS) & (\$MILLION), 2012-2019

Table 36 OTHERS: MICRONIZED PTFE MARKET SIZE, BY REGION, 2012-2019 (TONS)

Table 37 OTHERS: MICRONIZED PTFE MARKET SIZE, BY REGION, 2012-2019 (\$MILLION)

Table 38 OTHERS: MICRONIZED PTFE MARKET SIZE, BY TOP FIVE CONSUMER COUNTRIES, 2012-2019 (TONS)

Table 39 OTHERS: MICRONIZED PTFE MARKET SIZE, BY TOP FIVE CONSUMER COUNTRIES, 2012-2019 (\$MILLION)

Table 40 MICRONIZED PTFE MARKET SIZE, BY REGION, 2012-2019 (TONS)

Table 41 MICRONIZED PTFE MARKET SIZE, BY REGION, 2012-2019 (\$MILLION)

Table 42 NORTH AMERICA: MICRONIZED PTFE MARKET SIZE, BY COUNTRY, 2012-2019 (TONS)

Table 43 NORTH AMERICA: MICRONIZED PTFE MARKET SIZE, BY COUNTRY,

2012-2019 (\$MILLION)

Table 44 NORTH AMERICA: MICRONIZED PTFE MARKET SIZE, BY APPLICATION, 2012-2019 (TONS)

Table 45 NORTH AMERICA: MICRONIZED PTFE MARKET SIZE, BY APPLICATION, 2012-2019 (\$MILLION)

Table 46 U.S.: MICRONIZED PTFE MARKET SIZE, BY APPLICATION, 2012-2019 (TONS)

Table 47 U.S.: MICRONIZED PTFE MARKET SIZE, BY APPLICATION, 2012-2019 (\$MILLION)

Table 48 EUROPE: MICRONIZED PTFE MARKET SIZE, BY COUNTRY, 2012-2019 (TONS)

Table 49 EUROPE: MICRONIZED PTFE MARKET SIZE, BY COUNTRY, 2012-2019 (\$MILLION)

Table 50 EUROPE: MICRONIZED PTFE MARKET SIZE, BY APPLICATION, 2012-2019 (TONS)

Table 51 EUROPE: MICRONIZED PTFE MARKET SIZE, BY APPLICATION, 2012-2019 (\$MILLION)

Table 52 GERMANY: MICRONIZED PTFE MARKET SIZE, BY APPLICATION, 2012-2019 (TONS)

Table 53 GERMANY: MICRONIZED PTFE MARKET SIZE, BY APPLICATION, 2012-2019 (\$MILLION)

Table 54 ITALY: MICRONIZED PTFE MARKET SIZE, BY APPLICATION, 2012-2019 (TONS)

Table 55 ITALY: MICRONIZED PTFE MARKET SIZE, BY APPLICATION, 2012-2019 (\$MILLION)

Table 56 U.K.: MICRONIZED PTFE MARKET SIZE, BY APPLICATION, 2012-2019 (TONS)

Table 57 U.K.: MICRONIZED PTFE MARKET SIZE, BY APPLICATION, 2012-2019 (\$MILLION)

Table 58 NETHERLANDS: MICRONIZED PTFE MARKET SIZE, BY APPLICATION, 2012-2019 (TONS)

Table 59 NETHERLANDS: MICRONIZED PTFE MARKET SIZE, BY APPLICATION, 2012-2019 (\$MILLION)

Table 60 ASIA-PACIFIC: MICRONIZED PTFE MARKET SIZE, BY COUNTRY, 2012-2019 (TONS)

Table 61 ASIA-PACIFIC: MICRONIZED PTFE MARKET SIZE, BY COUNTRY, 2012-2019 (\$MILLION)

Table 62 ASIA-PACIFIC: MICRONIZED PTFE MARKET SIZE, BY APPLICATION, 2012-2019 (TONS)

Table 63 ASIA-PACIFIC: MICRONIZED PTFE MARKET SIZE, BY APPLICATION, 2012-2019 (\$MILLION)

Table 64 CHINA: MICRONIZED PTFE MARKET SIZE, BY APPLICATION, 2012-2019 (TONS)

Table 65 CHINA: MICRONIZED PTFE MARKET SIZE, BY APPLICATION, 2012-2019 (\$MILLION)

Table 66 JAPAN: MICRONIZED PTFE MARKET SIZE, BY APPLICATION, 2012-2019 (TONS)

Table 67 JAPAN: MICRONIZED PTFE MARKET SIZE, BY APPLICATION, 2012-2019 (\$MILLION)

Table 68 SOUTH KOREA: MICRONIZED PTFE MARKET SIZE, BY APPLICATION, 2012-2019 (TONS)

Table 69 SOUTH KOREA: MICRONIZED PTFE MARKET SIZE, BY APPLICATION, 2012-2019 (\$MILLION)

Table 70 INDIA: MICRONIZED PTFE MARKET SIZE, BY APPLICATION, 2012-2019 (TONS)

Table 71 INDIA: MICRONIZED PTFE MARKET SIZE, BY APPLICATION, 2012-2019 (\$MILLION)

Table 72 ROW: MICRONIZED PTFE MARKET SIZE, BY COUNTRY, 2012-2019 (TONS)

Table 73 ROW: MICRONIZED PTFE MARKET SIZE, BY COUNTRY, 2012-2019 (\$MILLION)

Table 74 ROW: MICRONIZED PTFE MARKET SIZE, BY APPLICATION, 2012-2019 (TONS)

Table 75 ROW: MICRONIZED PTFE MARKET SIZE, BY APPLICATION, 2012-2019 (\$MILLION)

Table 76 BRAZIL: MICRONIZED PTFE MARKET SIZE, BY APPLICATION, 2012-2019 (TONS)

Table 77 BRAZIL: MICRONIZED PTFE MARKET SIZE, BY APPLICATION, 2012-2019 (\$MILLION)

Table 78 NEW PRODUCT LAUNCHES, 2011–2014

Table 79 EXPANSIONS (2011-2014)

Table 80 JOINT VENTURE (2011-2014)

Table 81 AGREEMENTS & COLLABORATIONS (2011-2014)

About

Micronized PTFE is a type of fluoropolymer used as additives in a wide range of applications. These additives are used to enhance processing or end-use performance characteristics such as wear, rub & scratch resistance, release properties, ant-stick, anti-abrasion and anti-friction properties. The application of micronized PTFE includes inks, thermoplastics, coatings, elastomers, grease and lubricants, and others (such as cosmetics and healthcare products).

Inks: Types of inks that consume micronized PTFE include lithographic inks, gravure inks, flexographic inks, and hot melt Inks. Micronized PTFE in the ink industry is majorly consumed due to properties imparted by it like increased abrasion and rub resistance.

Thermoplastics: Micronized PTFE additives are used in different thermoplastics such as polycarbonate, polyoxymethylene, polyamide, polystyrene, and polypropylene in order to increase tensile strength, lubricity, wear resistance, and water repellency of the host material.

Coatings: Micronized PTFE is consumed widely in many coating industries as it increases chemical inertness, increases release properties, and rub resistance of coatings.

Elastomers: PTFE additives enhance wear and tear resistance, lower friction coefficients, and also increase flame retarding properties of elastomers.

Grease & Lubricants: Micronized PTFE is used as an additive in diversified applications of grease & lubricants such as heavy machinery, resistance controllers of radio knobs, and other electrical equipment, due to its value adding properties such as reduced friction coefficients, increased wear and tear resistance, and high temperature operating conditions.

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