

# **Medical Grade Tubing Market - A Global and Regional Analysis: Focus on Product, Material, Application, End Market, and Country-Wise Analysis - Analysis and Forecast, 2021-2030**

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## **Abstracts**

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Market Report Coverage - Medical Grade Tubing

Market Segmentation

Material – Fluoropolymers, Polyolefins, Polyvinyl Chloride (PVC), Silicone, Thermoplastic Elastomers (TPE), and Other Materials

End Market – Medical, Bio-Pharmaceutical and Life Science, and Clinical Testing

Product – Single Lumen Tubing and Multi-Lumen Tubing

Application – Abrasion Protection, Drug Delivery, Bulk Disposable Tubing, Catheters, Special Applications (Peristaltic Pump Tubing, Gas Supply Tubing, Smoke Evacuation Tubing, Feeding Tubes), and Other Applications

Regional Segmentation

North America - U.S. and Canada

Europe - Germany, U.K., France, Italy, Spain, and Rest-of-Europe

Asia-Pacific - Japan, China, South Korea, India, Australia and New Zealand, and Rest-of-Asia-Pacific

Latin America- Brazil, Mexico, Argentina, Colombia, and Rest-of-Latin-America

Middle East and Africa- K.S.A., U.A.E, South Africa, and Rest-of-Middle East and Africa

### Market Growth Drivers

Increasing Geriatric Population Driving the Need for Surgeries Requiring Medical Grade Tubing

Shift Toward Minimally Invasive Surgeries

Growth in Healthcare Expenditure

### Market Challenges

Stringent Regulations Governing the Production and Commercialization of Medical Grade Tubing

High Cost of Medical Grade Tubing in Case of Certain Materials

### Market Opportunities

Growing Investments in Healthcare Infrastructure in Emerging Economies

Market Expansion through Business Synergies

### Key Companies Profiled

A.P. Extrusion Incorporated, AP Technologies Group Pte Ltd., ATAG SpA, ASAHITEC

Corporation, B. Braun Melsungen AG, Compagnie de Saint-Gobain, Cook Group Incorporated, FBK Medical Tubing Inc., Freudenberg Medical, MDC Industries, Microlumen Inc., Nordson Corporation, Optinova Group, TE Connectivity Ltd., Trelleborg Group

## How This Report Can Add Value

Assuming that the reader is a manufacturer of medical grade tubing, the report will assist them in the following ways:

Understand their position compared to other key players in the market

Stay updated with novel technology integration, features, and the latest developments in the market

Understand the impact of COVID-19 on medical grade tubing and the entry barriers for new companies

Gain insights into end-user perception concerning the medical grade tubing market

Identify some key players in the market and understand their valuable contribution

## Key Questions Answered in the Report

How has COVID-19 impacted the adoption of medical grade tubing in the market?

What are the key regulations governing the medical grade tubing market in key regions?

What technological developments are projected to have the maximum influence on the global medical grade tubing market?

Who are the leading players holding significant dominance in the global medical grade tubing market?

What are some of the growth opportunities which market players can capitalize on?

What are the drivers and restraints for the global medical grade tubing market?

Which region has the highest growth rate in the global medical grade tubing market?

Which are the fastest growing countries in terms of the medical grade tubing market?

What are the key strategies being adopted by market players in the medical grade tubing market?

Who are the emerging companies in the global medical grade tubing market?

## Global Medical Grade Tubing Market Industry Overview

Medical grade tubing offers a wide range of applications in the bio-pharmaceutical and medical industry. The applications include administration of fluids, transfer of gases, and drug delivery, among others. The mechanical, thermal, and chemical properties of tubes can be used for a wide range of minimally invasive applications such as catheterization, delivery systems, and drug delivery systems.

The global medical grade tubing market is an emerging market in the medical device ecosystem. The market has witnessed a rise in product sales due to the growing use of medical tubing in catheters and interventional cardiology. Furthermore, the market also offers advanced designs for customized products that would further improve the medical industry's needs. The major factors that positively impact the market's growth include high prevalence and growing incidences of congenital heart defects, rise in cardiac catheterization, and increase in interventional cardiology. There are a wide variety of materials associated with medical grade tubing, including fluoropolymers, polyolefins, PVC, and silicone, among others.

The global medical grade tubing market report highlights that the market was valued at \$4,407.7 million in 2020 and is expected to reach \$6,255.9 million by the end of 2030. The market is expected to grow at a CAGR of 3.70% during the forecast period 2021-2030.

## Global Medical Grade Tubing Market Drivers

The factors driving the growth of the market include an increasing geriatric population driving the need for surgeries requiring medical grade tubing, a shift toward minimally invasive surgeries, and the growing expenditure in the healthcare industry. The increasing prevalence of diseases (such as cardiovascular diseases) requires complex surgical treatment. This, in turn, has increased the demand for medical tubing required in minimally invasive surgeries. Governments invest a significant amount of money in healthcare insurance so that the overall healthcare costs can be reduced, and the quality of life and affordability of the treatment can be enhanced.

## Global Medical Grade Tubing Market Restraints

The factors restraining the growth of the global medical grade tubing market include the stringent government regulations on medical tubing products and the high cost associated with medical tubing products. Delay in regulatory approval for the products due to the stringent government regulations concerning medical grade tubing hinders the market's growth. Another major restraint for the global medical grade tubing market is the high cost associated with the medical grade tubing market. For instance, choosing the ideal material for a particular medical application requires high investments and intense R&D expenditures.

## Global Medical Grade Tubing Market Opportunities

High growth opportunities in emerging economies and the emergence of local companies in Asia-Pacific and the Middle East and Africa hold immense potential for the global medical grade tubing market growth.

There is massive scope for medical grade tubing in developing countries. Countries such as China, India, Brazil, and Mexico possess populations with high prevalence and incidence rates of cardiovascular diseases, which drives the inclusion of interventional medical grade tubing for various treatments, which would surge the overall medical grade tubing market in these emerging countries.

## Impact of COVID-19 on the Global Medical Grade Tubing Market

During COVID-19, the growth of the medical grade tubing market was positively impacted. The market has witnessed an increase in the growth of nasogastric tubes,

nebulizers, spacer devices, and others. The market is projected to witness considerable growth during the forecast period 2021-2030. The increasing innovations and products designs in the global market and the growing use in emerging economies are the driving factors for the growth of the market.

## Market Segmentation

### Global Medical Grade Tubing Market (by Material)

The global medical grade tubing market, based on material, has been segmented into Fluoropolymers (Fluorinated ethylene propylene (FEP), Polyvinylidene fluoride (PVDF), Polytetrafluoroethylene (PTFE), Ethylene Tetrafluoroethylene (ETFE), Other Fluoropolymers), Polyolefins (Polypropylene (PP), Polyethylene (PE), (High-Density Polyethylene (HDPE), Low-Density Polyethylene (LDPE), Linear-Density Polyethylene (LLDPE), Polyvinyl Chloride (PVC), Silicone, Thermoplastic Elastomers (Polyether block amide (PEBAX) and Other TPEs), and Other Materials (Polyamide (PA), Polyether Ether Ketone (PEEK), Polyester, etc.).

The silicone medical grade tubing has excellent sterilization and microwave properties. The increasing demand for silicone material owing to high dielectric strength and semi permeability for various medical applications is expected to drive the demand for silicone material during the forecast period.

### Global Medical Grade Tubing Market (by Product)

The global medical grade tubing market, based on product type, has been segmented into single lumen tubing and multi-lumen tubing. Single lumen extrusions serve a wide range of medical applications, including IV therapy, catheters, and feeding tubes. Multi-lumen tubing can be made from any thermoplastic material depending upon the application and medical device.

### Global Medical Grade Tubing Market (by Application)

The global medical grade tubing market, based on application, has been segmented into abrasion protection, drug delivery, bulk disposable tubing (IV tubing and dialysis tubing), catheters, special applications (peristaltic pump tubing, gas supply tubing, smoke evacuation tubing, feeding tubes, and other applications (arthroscopy, endoscopy, laparoscopy, etc.)

The demand for tubing in catheter applications is expected to increase significantly. For instance, tubing can be used to drive catheters in cardiac catheterizations to test for heart disease and locate narrowing blood vessels. Thus, the wide use of catheters application in the healthcare industry will drive various growth opportunities for medical tube manufacturers.

#### Global Medical Grade Tubing Market (by End Market)

The global medical grade tubing market, based on end markets, has been segmented into medical, bio-pharmaceutical and life science, and clinical testing.

The medical segment is at the forefront of the medical grade tubing market. The increasing focus on minimally invasive procedures has been one of the strongest drivers for the growth of the medical grade tubing market.

The growing use of medical tubing for biopharmaceutical and medical-related applications such as management and drainage of fluids is expected to boost the growth of the medical grade tubing market.

#### Global Medical Grade Tubing Market (by Region)

The different regions covered under the global interventional oncology devices market include North America, Europe, Asia-Pacific, Latin America, and Middle East and Africa.

North America is expected to be the most lucrative region for the global medical grade tubing market due to advanced healthcare infrastructure and a high focus on research and development activities. The Asia-Pacific interventional oncology devices market is one of the lucrative markets with immense potential for expansion by key players of the global medical grade tubing market. The Asia-Pacific medical grade tubing market is expected to grow at the fastest rate during the forecast period. This can be attributed to the massive geriatric population base, driving the demand for minimally invasive and non-invasive surgical procedures.

#### Key Market Players and Competition Synopsis

Some key players operating in the global medical grade tubing market include AP Technologies Group Pte Ltd., A.P. Extrusion Incorporated., ASAHITEC Corporation, ATAG spa, B. Braun Melsungen AG, Compagnie de Saint-Gobain S.A., Cook Group Incorporated, FBK Medical Tubing Inc., Freudenberg Medical, MDC Industries, MicroLumen Inc., Nordson Corporation, Optinova Group, TE Connectivity, and

Trelleborg Group.

Some strategies covered in this segment are funding activities, mergers and acquisitions (M&As), partnerships, alliances, business expansion, regulatory and legal activities, and new offerings.



## Contents

### **1 PRODUCT DEFINITION**

### **2 SCOPE OF RESEARCH**

- 2.1 Scope of the Study
- 2.2 Inclusion and Exclusion Criteria
- 2.3 Key Questions Answered in the Report

### **3 RESEARCH METHODOLOGY**

- 3.1 Data Collection and Analysis
- 3.2 Data Source
  - 3.2.1 Primary Data Sources
  - 3.2.2 Secondary Data Sources
- 3.3 Data Triangulation
- 3.4 Market Estimation
- 3.5 Forecast Period Selection Criteria
- 3.6 Assumption and Limitations

### **4 IMPACT OF COVID-19 ON THE GLOBAL MEDICAL GRADE TUBING MARKET**

- 4.1 Impact on Manufacturing Facilities
- 4.2 Impact on Supply Chain
- 4.3 Impact on Market Size
  - 4.3.1 Scenario Comparative Analysis (Pre-COVID, During-COVID, Post-COVID)
- 4.4 Future Outlook and Recommendations

### **5 INDUSTRY ANALYSIS**

- 5.1 Technology Landscape
  - 5.1.1 Key Trends
    - 5.1.1.1 Short-Term Potential (2-4 Years)
    - 5.1.1.2 Mid-Term Potential (5-10 Years)
    - 5.1.1.3 Long-Term Potential (8-12 Years)
- 5.2 Value Chain Analysis
- 5.3 Regulatory Framework
  - 5.3.1 North America

- 5.3.2 Europe
- 5.3.3 Rest-of-the-World
- 5.4 Patent Analysis
  - 5.4.1 Patents Filed (by Country)
  - 5.4.2 Patents Filed (by Year)
- 5.5 Product Benchmarking
- 5.6 Porter's Five Forces Analysis
  - 5.6.1 Bargaining Power of Suppliers
  - 5.6.2 Bargaining Power of Buyers
  - 5.6.3 Threat of Substitutes
  - 5.6.4 Threat of New Entrants
  - 5.6.5 Intensity of Competition

## **6 COMPETITIVE ANALYSIS**

- 6.1 Market Share Analysis
- 6.2 Key Strategies and Developments
  - 6.2.1 Partnerships, Alliances, and Business Expansion
  - 6.2.2 Merger and Acquisition Activities
  - 6.2.3 New Offerings
- 6.3 Business Model Analysis
- 6.4 Key Players - Competitive Benchmarking

## **7 GLOBAL MEDICAL GRADE TUBING MARKET SCENARIO**

- 7.1 Assumptions and Limitations
- 7.2 Key Findings and Opportunity Assessment
- 7.3 Global Medical Grade Tubing Market Size and Forecast
  - 7.3.1 Realistic Growth Scenario
  - 7.3.2 Pessimistic/Conservative Scenario
  - 7.3.3 Optimistic Scenario
- 7.4 Market Dynamics
  - 7.4.1 Impact Analysis
  - 7.4.2 Market Growth Promoting Factors
    - 7.4.2.1 Growth in Healthcare Expenditure
    - 7.4.2.2 Shift toward Minimally Invasive Surgeries
    - 7.4.2.3 Increasing Geriatric Population Driving the Need for Surgeries Requiring Medical Grade Tubing
  - 7.4.3 Market Growth Restraining Factors

7.4.3.1 Stringent Regulations Governing the Production and Commercialization of Medical Grade Tubing

7.4.3.2 High Cost of Medical Grade Tubing in Case of Certain Materials

7.4.4 Market Growth Opportunities

7.4.4.1 Growing Investments in Healthcare Infrastructure in Emerging Economies

7.4.4.2 Market Expansion through Business Synergies

## **8 GLOBAL MEDICAL GRADE TUBING MARKET (BY MATERIAL)**

8.1 Opportunity Assessment

8.2 Growth Share Matrix

8.3 Fluoropolymers

8.3.1 Fluorinated Ethylene Propylene (FEP)

8.3.2 Polyvinylidene Fluoride (PVDF)

8.3.3 Polytetrafluoroethylene (PTFE)

8.3.4 Ethylene Tetrafluoroethylene (ETFE)

8.3.5 Other Fluoropolymers

8.4 Polyolefins

8.4.1 Polypropylene (PP)

8.4.2 Polyethylene (PE)

8.4.2.1 High-Density Polyethylene (HDPE)

8.4.2.2 Low-Density Polyethylene (LDPE)

8.4.2.3 Linear Low-Density Polyethylene (LLDP)

8.5 Polyvinyl Chloride (PVC)

8.6 Silicone

8.7 Thermoplastic Elastomers (TPE)

8.7.1 Polyether Block Amide (PEBAX)

8.7.2 Other TPEs

8.8 Other Materials

## **9 GLOBAL MEDICAL GRADE TUBING MARKET (BY PRODUCT)**

9.1 Opportunity Assessment

9.2 Single Lumen Tubing

9.3 Multi-Lumen Tubing

## **10 GLOBAL MEDICAL GRADE TUBING MARKET (BY APPLICATION)**

10.1 Opportunity Assessment

- 10.2 Growth Share Matrix
- 10.3 Abrasion Protection
- 10.4 Drug Delivery
- 10.5 Bulk Disposable Tubing
  - 10.5.1 Intravenous (IV) Tubing
  - 10.5.2 Dialysis Tubing
  - 10.5.3 Others
- 10.6 Catheters
- 10.7 Special Applications
  - 10.7.1 Peristaltic Pump Tubing
  - 10.7.2 Gas Supply Tubing
  - 10.7.3 Smoke Evacuation Tubing
  - 10.7.4 Feeding Tubes
- 10.8 Other Applications

## **11 GLOBAL MEDICAL GRADE TUBING MARKET (BY END MARKET)**

- 11.1 Opportunity Assessment
- 11.2 Growth Share Matrix
- 11.3 Medical
- 11.4 Bio-Pharmaceutical and Life Science
- 11.5 Clinical Testing

## **12 GLOBAL MEDICAL GRADE TUBING MARKET (BY REGION)**

- 12.1 Overview
- 12.2 North America
  - 12.2.1 Key Findings and Opportunity Assessment
  - 12.2.2 Market Dynamics: Impact Analysis
  - 12.2.3 Market Size and Forecast
    - 12.2.3.1 By Material
    - 12.2.3.2 By Application
    - 12.2.3.3 By End Market
    - 12.2.3.4 By Country
      - 12.2.3.4.1 U.S.
      - 12.2.3.4.2 Canada
- 12.3 Europe Medical Grade Tubing Market
  - 12.3.1 Key Findings and Opportunity Assessment
  - 12.3.2 Market Dynamics: Impact Analysis

### 12.3.3 Market Size and Forecast

12.3.3.1 By Material

12.3.3.2 By Application

12.3.3.3 By End Market

12.3.3.4 By Country

12.3.3.4.1 Germany

12.3.3.4.2 U.K.

12.3.3.4.3 France

12.3.3.4.4 Italy

12.3.3.4.5 Spain

12.3.3.4.6 Rest-of-Europe

### 12.4 Asia-Pacific Medical Grade Tubing Market

12.4.1 Key Findings and Opportunity Assessment

12.4.2 Market Dynamics: Impact Analysis

12.4.3 Market Size and Forecast

12.4.3.1 By Material

12.4.3.2 By Application

12.4.3.3 By End Market

12.4.3.4 By Country

12.4.3.4.1 Japan

12.4.3.4.2 China

12.4.3.4.3 South Korea

12.4.3.4.4 Australia and New Zealand

12.4.3.4.5 India

12.4.3.4.6 Rest-of-Asia-Pacific

### 12.5 Latin America Medical Grade Tubing Market

12.5.1 Key Findings and Opportunity Assessment

12.5.2 Market Dynamics: Impact Analysis

12.5.3 Market Size and Forecast

12.5.3.1 By Material

12.5.3.2 By Application

12.5.3.3 By End Market

12.5.3.4 By Country

12.5.3.4.1 Brazil

12.5.3.4.2 Mexico

12.5.3.4.3 Argentina

12.5.3.4.4 Colombia

12.5.3.4.5 Rest-of-Latin America

### 12.6 Middle East and Africa Medical Grade Tubing Market

- 12.6.1 Key Findings and Opportunity Assessment
- 12.6.2 Market Dynamics: Impact Analysis
- 12.6.3 Market Size and Forecast
  - 12.6.3.1 By Material
  - 12.6.3.2 By Application
  - 12.6.3.3 By End Market
  - 12.6.3.4 By Country
    - 12.6.3.4.1 K.S.A.
    - 12.6.3.4.2 U.A.E
    - 12.6.3.4.3 South Africa
    - 12.6.3.4.4 Rest-of-Middle East and Africa

## **13 COMPANY PROFILES**

- 13.1 Overview
- 13.2 A.P. Extrusion Incorporated
  - 13.2.1 Company Overview
  - 13.2.2 Role of A.P. Extrusion Incorporated in the Global Medical Grade Tubing Market
  - 13.2.3 SWOT Analysis
- 13.3 AP Technologies Group Pte Ltd.
  - 13.3.1 Company Overview
  - 13.3.2 Role of AP Technologies Group Pte Ltd. in the Global Medical Grade Tubing Market
  - 13.3.3 SWOT Analysis
- 13.4 ATAG SpA
  - 13.4.1 Company Overview
  - 13.4.2 Role of ATAG SpA in the Global Medical Grade Tubing Market
  - 13.4.3 SWOT Analysis
- 13.5 ASAHITEC Corporation
  - 13.5.1 Company Overview
  - 13.5.2 Role of ASAHITEC Corporation in the Global Medical Grade Tubing Market
  - 13.5.3 SWOT Analysis
- 13.6 B. Braun Melsungen AG
  - 13.6.1 Company Overview
  - 13.6.2 Role of B. Braun Melsungen AG in the Global Medical Grade Tubing Market
  - 13.6.3 Financials
  - 13.6.4 SWOT Analysis
- 13.7 Compagnie de Saint-Gobain
  - 13.7.1 Company Overview

## 13.7.2 Role of Compagnie de Saint-Gobain in the Global Medical Grade Tubing Market

### 13.7.3 Financials

### 13.7.4 Recent Developments

### 13.7.5 SWOT Analysis

## 13.8 Cook Group Incorporated

### 13.8.1 Company Overview

### 13.8.2 Role of Cook Group Incorporated in the Global Medical Grade Tubing Market

### 13.8.3 SWOT Analysis

## 13.9 FBK Medical Tubing Inc.

### 13.9.1 Company Overview

### 13.9.2 Role of FBK Medical Tubing Inc. in the Global Medical Grade Tubing Market

### 13.9.3 SWOT Analysis

## 13.1 Freudenberg Medical

### 13.10.1 Company Overview

### 13.10.2 Role of Freudenberg Medical in the Global Medical Grade Tubing Market

### 13.10.3 Recent Developments

### 13.10.4 SWOT Analysis

## 13.11 MDC Industries

### 13.11.1 Company Overview

### 13.11.2 Role of MDC Industries in the Global Medical Grade Tubing Market

### 13.11.3 SWOT Analysis

## 13.12 Microlumen Inc.

### 13.12.1 Company Overview

### 13.12.2 Role of Microlumen Inc. in the Global Medical Grade Tubing Market

### 13.12.3 SWOT Analysis

## 13.13 Nordson Corporation

### 1.1.1 Company Overview

### 13.13.1 Role of Nordson Corporation in the Global Medical Grade Tubing Market

### 13.13.2 Financials

### 13.13.3 Recent Developments

### 13.13.4 SWOT Analysis

## 13.14 Optinova Group

### 13.14.1 Company Overview

### 13.14.2 Role of Optinova Group in the Global Medical Grade Tubing Market

### 13.14.3 Recent Developments

### 13.14.4 SWOT Analysis

## 13.15 TE Connectivity Ltd.

### 13.15.1 Company Overview

13.15.2 Role of TE Connectivity Ltd. in the Global Medical Grade Tubing Market

13.15.3 Financials

13.15.4 SWOT Analysis

13.16 Trelleborg Group

13.16.1 Company Overview

13.16.2 Role of Trelleborg Group in the Global Medical Grade Tubing Market

13.16.3 Financials

13.16.4 Recent Developments

13.16.5 SWOT Analysis



## List Of Figures

### LIST OF FIGURES

Figure 1: Global Medical Grade Tubing Market Dynamics Impact Analysis

Figure 2: Global Medical Grade Tubing Market (by Region), \$Million, 2020 and 2030

Figure 3: Global Medical Grade Tubing Market Incremental Opportunity, \$Million, 2020-2030

Figure 4: Global Medical Grade Tubing Market Coverage

Figure 5: Global Medical Grade Tubing Market Research Methodology

Figure 6: Primary Research

Figure 7: Secondary Research

Figure 8: Data Triangulation

Figure 9: Assumptions and Limitations

Figure 10: Global Medical Grade Tubing Market, COVID-19 Impact Analysis (With COVID-19 Vs. Without COVID-19), \$Million, 2019-2021

Figure 11: COVID-19 Impact Analysis on the Global Medical Grade Tubing Market

Figure 12: Global Medical Grade Tubing Market: Key Trends

Figure 13: Global Medical Grade Tubing Market: Key Trends, Short-Term Impact Analysis, 2023-2025

Figure 14: Global Medical Grade Tubing Market: Key Trends, Mid-Term Impact Analysis, 2026-2031

Figure 15: Global Medical Grade Tubing Market: Key Trends, Long-Term Impact Analysis, 2029-2033

Figure 16: Global Medical Grade Tubing Market Value Chain Analysis

Figure 17: Global Medical Grade Tubing Market: Patent Analysis (by Country), January 2018-September 2021

Figure 18: Global Medical Grade Tubing Market: Patent Analysis (by Year), January 2018-September 2021

Figure 19: Global Medical Grade Tubing Market: Porter's Five Forces Analysis

Figure 20: Global Medical Grade Tubing Market: Company Revenue Share Analysis, 2020

Figure 21: Share of Key Developments and Strategies, January 2019-October 2021

Figure 22: Global Medical Grade Tubing Market: Competitive Benchmarking, 2020

Figure 23: Global Medical Grade Tubing Market: Potential Forecast Scenarios

Figure 24: Global Medical Grade Tubing Market, Realistic Growth Scenario, \$Million, 2020-2030

Figure 25: Global Medical Grade Tubing Market, Pessimistic Growth Scenario, \$Million, 2020-2030

Figure 26: Global Medical Grade Tubing Market, Optimistic Growth Scenario, \$Million, 2020-2030

Figure 27: Global Medical Grade Tubing Market: Impact Analysis

Figure 28: Global Healthcare Expenditure and Financing Share in GDP (by Country), 2010-2019

Figure 29: Minimally Invasive Surgeries Procedures Growth, 2018-2030

Figure 30: Global Population Growth, 1955-2030

Figure 31: Global Medical Grade Tubing Market (by Material)

Figure 32: Global Medical Grade Tubing Market Incremental Opportunity (by Material), \$Million, 2020-2030

Figure 33: Global Medical Grade Tubing Market, Growth Share Matrix (by Material), 2020-2030

Figure 34: Global Medical Grade Tubing Market (Fluoropolymers), \$Million, 2019-2030

Figure 35: Global Medical Grade Tubing Market (Fluorinated Ethylene Propylene (FEP)), \$Million, 2019-2030

Figure 36: Global Medical Grade Tubing Market (Polyvinylidene Fluoride (PVDF)), \$Million, 2019-2030

Figure 37: Global Medical Grade Tubing Market (Polytetrafluoroethylene (PTFE)), \$Million, 2019-2030

Figure 38: Global Medical Grade Tubing Market (Ethylene Tetrafluoroethylene (ETFE)), \$Million, 2019-2030

Figure 39: Global Medical Grade Tubing Market (Other Fluoropolymers), \$Million, 2019-2030

Figure 40: Global Medical Grade Tubing Market (Polyolefins), \$Million, 2019-2030

Figure 41: Global Medical Grade Tubing Market (Polypropylene (PP)), \$Million, 2019-2030

Figure 42: Global Medical Grade Tubing Market (Polyethylene (PE)), \$Million, 2019-2030

Figure 43: Global Medical Grade Tubing Market (High-Density Polyethylene (HDPE)), \$Million, 2019-2030

Figure 44: Global Medical Grade Tubing Market (Low-Density Polyethylene (LDPE)), \$Million, 2019-2030

Figure 45: Global Medical Grade Tubing Market (Linear Low-Density Polyethylene (LLDPE)), \$Million, 2019-2030

Figure 46: Global Medical Grade Tubing Market of (Polyvinyl Chloride (PVC)), \$Million, 2019-2030

Figure 47: Global Medical Grade Tubing Market (Silicone), \$Million, 2019-2030

Figure 48: Global Medical Grade Tubing Market (Thermoplastic Elastomers (TPE)), \$Million, 2019-2030

Figure 49: Global Medical Grade Tubing (Polyether Block Amide (PEBAX)), \$Million, 2019-2030

Figure 50: Global Medical Grade Tubing Market (Other TPEs), \$Million, 2019-2030

Figure 51: Global Medical Grade Tubing Market (Other Materials), \$Million, 2019-2030

Figure 52: Global Medical Grade Tubing Market (by Product)

Figure 53: Global Medical Grade Tubing Market Incremental Opportunity (by Product), \$Million, 2020-2030

Figure 54: Global Medical Grade Tubing Market (Single Lumen Tubing), \$Million, 2019-2030

Figure 55: Global Medical Grade Tubing Market (Multi-Lumen Tubing), \$Million, 2019-2030

Figure 56: Global Medical Grade Tubing Market (by Application)

Figure 57: Global Medical Grade Tubing Market Incremental Opportunity (by Application), \$Million, 2020-2030

Figure 58: Global Medical Grade Tubing Market, Growth Share Matrix (by Application), 2020-2030

Figure 59: Global Medical Grade Tubing Market (Abrasion Protection), \$Million, 2019-2030

Figure 60: Global Medical Grade Tubing Market (Drug Delivery), \$Million, 2019-2030

Figure 61: Global Medical Grade Tubing Market (Bulk Disposable Tubing), \$Million, 2019-2030

Figure 62: Global Medical Grade Tubing Market (IV Tubing), \$Million, 2019-2030

Figure 63: Global Medical Grade Tubing Market (Dialysis Tubing), \$Million, 2019-2030

Figure 64: Global Medical Grade Tubing Market (Others), \$Million, 2019-2030

Figure 65: Global Medical Grade Tubing Market (Catheters), \$Million, 2019-2030

Figure 66: Global Medical Grade Tubing Market (Special Applications), \$Million, 2019-2030

Figure 67: Global Medical Grade Tubing Market (Peristaltic Pump Tubing), \$Million, 2019-2030

Figure 68: Global Medical Grade Tubing Market (Gas Supply Tubing), \$Million, 2019-2030

Figure 69: Global Medical Grade Tubing Market (Smoke Evacuation Tubing) \$Million, 2019-2030

Figure 70: Global Medical Grade Tubing Market (Feeding Tubes) \$Million, 2019-2030

Figure 71: Global Medical Grade Tubing Market (Other Applications), \$Million, 2019-2030

Figure 72: Global Medical Grade Tubing Market (by End Market)

Figure 73: Global Medical Grade Tubing Market Incremental Opportunity (by End Market), \$Million, 2020-2030

- Figure 74: Global Medical Grade Tubing Market (Medical), \$Million, 2019-2030
- Figure 75: Global Medical Grade Tubing Market (Bio-Pharmaceutical and Life Science), \$Million, 2019-2030
- Figure 76: Global Medical Grade Tubing Market (Clinical Testing), \$Million, 2019-2030
- Figure 77: Global Medical Grade Tubing Market Share (by Region), 2020-2030
- Figure 78: North America Medical Grade Tubing Market Incremental Revenue Opportunity (by Country), \$Million, 2020-2030
- Figure 79: North America Medical Grade Tubing Market, \$Million, 2019-2030
- Figure 80: North America Medical Grade Tubing Market (by Material), \$Million, 2019-2030
- Figure 81: North America Medical Grade Tubing Market (by Application), \$Million, 2019-2030
- Figure 82: North America Medical Grade Tubing Market (by End Market), \$Million, 2019-2030
- Figure 83: U.S. Medical Grade Tubing Market, \$Million, 2019-2030
- Figure 84: Canada Medical Grade Tubing Market, \$Million, 2019-2030
- Figure 85: Europe Medical Grade Tubing Market Incremental Revenue Opportunity (by Country), \$Million, 2020-2030
- Figure 86: Europe Medical Grade Tubing Market, \$Million, 2019-2030
- Figure 87: Europe Medical Grade Tubing Market (by Material), \$Million, 2019-2030
- Figure 88: Europe Medical Grade Tubing Market (by Application), \$Million, 2019-2030
- Figure 89: Europe Medical Grade Tubing Market (by End Market), \$Million, 2019-2030
- Figure 90: Germany Medical Grade Tubing Market, \$Million, 2019-2030
- Figure 91: U.K. Medical Grade Tubing Market, \$Million, 2019-2030
- Figure 92: France Medical Grade Tubing Market, \$Million, 2019-2030
- Figure 93: Italy Medical Grade Tubing Market, \$Million, 2019-2030
- Figure 94: Spain Medical Grade Tubing Market, \$Million, 2019-2030
- Figure 95: Rest-of-Europe Medical Grade Tubing Market, \$Million, 2019-2030
- Figure 96: Asia-Pacific Medical Grade Tubing Market Incremental Revenue Opportunity (by Country), \$Million, 2020-2030
- Figure 97: Asia-Pacific Medical Grade Tubing Market, \$Million, 2019-2030
- Figure 98: Asia-Pacific Medical Grade Tubing Market (by Material), \$Million, 2019-2030
- Figure 99: Asia-Pacific Medical Grade Tubing Market (by Application), \$Million, 2019-2030
- Figure 100: Asia-Pacific Medical Grade Tubing Market (by End Market), \$Million, 2019-2030
- Figure 101: Japan Medical Grade Tubing Market, \$Million, 2019-2030
- Figure 102: Number of Hospitals in China, 2009-2019
- Figure 103: China Medical Grade Tubing Market, \$Million, 2019-2030

- Figure 104: South Korea Medical Grade Tubing Market, \$Million, 2019-2030
- Figure 105: Australia and New Zealand Medical Grade Tubing Market, \$Million, 2019-2030
- Figure 106: India Medical Grade Tubing Market, \$Million, 2019-2030
- Figure 107: Rest-of-Asia-Pacific Medical Grade Tubing Market, \$Million, 2019-2030
- Figure 108: Latin America Medical Grade Tubing Market Incremental Revenue Opportunity (by Country), \$Million, 2020-2030
- Figure 109: Latin America Medical Grade Tubing Market, \$Million, 2019-2030
- Figure 110: Latin America Medical Grade Tubing Market (by Material), \$Million, 2019-2030
- Figure 111: Latin America Medical Grade Tubing Market (by Application), \$Million, 2019-2030
- Figure 112: Latin America Medical Grade Tubing Market (by End Market), \$Million, 2019-2030
- Figure 113: Brazil Medical Grade Tubing Market, \$Million, 2019-2030
- Figure 114: Mexico Medical Grade Tubing Market, \$Million, 2019-2030
- Figure 115: Argentina Medical Grade Tubing Market, \$Million, 2019-2030
- Figure 116: Colombia Medical Grade Tubing Market, \$Million, 2019-2030
- Figure 117: Rest-of-Latin America Medical Grade Tubing Market, \$Million, 2019-2030
- Figure 118: Middle East and Africa Medical Grade Tubing Market Incremental Revenue Opportunity (by Country), \$Million, 2020-2030
- Figure 119: Middle East and Africa Medical Grade Tubing Market, \$Million, 2019-2030
- Figure 120: Middle East and Africa Medical Grade Tubing Market (by Material), \$Million, 2019-2030
- Figure 121: Middle East and Africa Medical Grade Tubing Market (by Application), \$Million, 2019-2030
- Figure 122: Middle East and Africa Medical Grade Tubing Market (by End Market), \$Million, 2019-2030
- Figure 123: Healthcare and Medical Market Expenditure, \$Billion, 2019-2022
- Figure 124: K.S.A Medical Grade Tubing Market, \$Million, 2019-2030
- Figure 125: U.A.E Medical Grade Tubing Market, \$Million, 2019-2030
- Figure 126: South Africa Medical Grade Tubing Market, \$Million, 2019-2030
- Figure 127: Rest-of-Middle East and Africa Medical Grade Tubing Market, \$Million, 2019-2030
- Figure 128: Shares of Key Companies Profiled
- Figure 129: A.P. Extrusion Incorporated: Overall Product Portfolio
- Figure 130: AP Technologies Group Pte Ltd.: Overall Product Portfolio
- Figure 131: ATAG SpA: Overall Product Portfolio
- Figure 132: ASAHITEC Corporation: Overall Product Portfolio



- Figure 133: B. Braun Melsungen AG: Overall Product Portfolio
- Figure 134: B. Braun Melsungen AG: Overall Financials, \$Million, 2018-2020
- Figure 135: B. Braun Melsungen AG: Revenue (by Product Segment), \$Million, 2018-2020
- Figure 136: B. Braun Melsungen AG: Revenue (by Region), \$Million 2018-2020
- Figure 137: B. Braun Melsungen AG: R&D Expenditure, \$Million, 2018-2020
- Figure 138: Compagnie de Saint-Gobain: Overall Product Portfolio
- Figure 139: Compagnie de Saint-Gobain: Overall Financials, \$Million, 2018-2020
- Figure 140: Compagnie de Saint-Gobain: Revenue (by Segment), \$Million, 2018-2020
- Figure 141: Compagnie de Saint-Gobain: R&D Expenditure, \$Million, 2018-2020
- Figure 142: Cook Group Incorporated: Overall Product Portfolio
- Figure 143: FBK Medical Tubing Inc.: Overall Product Portfolio
- Figure 144: Freudenberg Medical: Overall Product Portfolio
- Figure 145: MDC Industries: Overall Product Portfolio
- Figure 146: Microlumen Inc.: Overall Product Portfolio
- Figure 147: Nordson Corporation: Overall Product Portfolio
- Figure 148: Nordson Corporation: Overall Financials, \$Million, 2018-2020
- Figure 149: Nordson Corporation: Revenue (by Product Segment), \$Million, 2018-2020
- Figure 150: Nordson Corporation: Revenue (by Region), \$Million, 2018-2020
- Figure 151: Nordson Corporation: R&D Expenditure, \$Million, 2018-2020
- Figure 152: Optinova Group: Overall Product Portfolio
- Figure 153: TE Connectivity Ltd.: Overall Product Portfolio
- Figure 154: TE Connectivity Ltd.: Overall Financials, \$Million, 2019-2021
- Figure 155: TE Connectivity Ltd.: Revenue (by Product Segment), \$Million, 2019-2021
- Figure 156: TE Connectivity Ltd.: Revenue (by Region), \$Million, 2019-2021
- Figure 157: TE Connectivity Ltd.: R&D Expenditure, \$Million, 2019-2021
- Figure 158: Trelleborg Group: Overall Product Portfolio
- Figure 159: Trelleborg Group: Overall Financials, \$Million, 2018-2020
- Figure 160: Trelleborg Group: Revenue (by Product Segment), \$Million, 2018-2020
- Figure 161: Trelleborg Group: Revenue (by Region), \$Million, 2018-2020
- Figure 162: Trelleborg Group: R&D Expenditure, \$Million, 2018-2020

## List Of Tables

### LIST OF TABLES

Table 1: Global Medical Grade Tubing Market Quarterly Key Developments Analysis, January 2019-October 2021

Table 2: North America Medical Grade Tubing Market Regulations

Table 3: Europe Medical Grade Tubing Market Regulations

Table 4: Rest-of-the-World Medical Grade Tubing Market Regulations

Table 5: Medical Grade Tubing Market: Product Benchmarking

Table 6: Global Medical Grade Tubing Market: Partnerships, Alliances, and Business Expansion (by Company), January 2019-October 2021

Table 7: Global Medical Grade Tubing Market: Merger and Acquisition Activities (by Company), January 2019-October 2021

Table 8: Global Medical Grade Tubing Market: New Offerings (by Company), January 2019-October 2021

Table 9: North America Medical Grade Tubing Market Dynamics Impact Analysis

Table 10: Europe Medical Grade Tubing Market Dynamics Impact Analysis

Table 11: Asia-Pacific Medical Grade Tubing Market Dynamics Impact Analysis

Table 12: Latin America Medical Grade Tubing Market Dynamics Impact Analysis

Table 13: Middle East and Africa Medical Grade Tubing Market Dynamics Impact Analysis

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