

**Thermal Spray Coatings Market by Materials (Ceramics and Metals & Alloys), Process (Combustion Flame and Electrical), End-Use Industry (Aerospace, Automotive, Healthcare, Agriculture, Energy & Power and Electronics) and Region - Global Forecast to 2028**

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**Report description:**

The thermal spray coatings market is projected to grow from USD 10.4 billion in 2023 to USD 14.3 billion by 2028, at a CAGR of 6.5% from 2023 to 2028. The aerospace industry is a significant driver for the thermal spray coating market. Thermal spray coatings are widely used in aircraft engines, turbine blades, aerospace structures, and defense equipment to improve performance, reduce weight, and enhance durability.

"By process, the combustion flame segment is estimated to be the largest segment of the thermal spray coatings market from 2023 to 2028."

Based on the process, the combustion flame is estimated to be the largest segment during the forecast period. The combustion flame process facilitates excellent bond strength and adhesion between the coating and substrate. The high temperatures and velocity of the particles generated by the flame promote strong metallurgical bonding, resulting in a durable and resilient coating. This is particularly crucial for applications where the coating must withstand high temperatures, mechanical stress, or corrosive environments. Hence, these factors are propelling the market growth for the combustion flame segment.

"By material, ceramics is estimated to be the largest segment of the thermal spray coatings market from 2023 to 2028."

Based on material, ceramics is estimated to account for the largest share during the forecast period. Ceramic coatings possess excellent electrical insulation properties. They are used in applications where electrical conductivity needs to be minimized, or insulation is required. Examples include electrical components, circuit boards, and high-voltage insulators.

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"By end-use, the aerospace is estimated to be the largest segment of the thermal spray coatings market from 2023 to 2028." Based on end-use, aerospace is estimated to account for the largest share during the forecast period. Thermal spray coatings are employed in thermal protection systems (TPS) for spacecraft and re-entry vehicles. TPS coatings, such as ablation and insulating materials, are designed to withstand extreme temperatures during atmospheric re-entry and protect the underlying structures from heat damage.

"The thermal spray coatings market in the North America region is projected to witness the highest share during the forecast period."

North America is projected to register the greatest share in the thermal spray coatings market from 2023 to 2028. The automotive industry in North America is another key driver of the thermal spray coatings market. Coatings are applied to automotive components, such as engine parts, piston rings, and transmission systems, to enhance performance, reduce friction, and improve fuel efficiency. With the increasing demand for lightweight materials and improved engine efficiency, the use of thermal spray coatings in the automotive sector is expected to grow.

Profile break-up of primary participants for the report:

-□By Company Type: Tier 1 - 40%, Tier 2 - 20%, and Tier 3 - 40%

-□By Designation: C-level Executives - 20%, Directors - 50%, and Others - 30%

-□By Region: North America - 25%, Europe -15%, Asia Pacific - 30%, and Latin America-20%, Middle East & Africa-10%

The thermal spray coatings report is dominated by players such as Praxair ST Technologies, Inc. (US), H.C Starck GmbH (Germany), Bodycote (UK), and Oerlikon Metco (Switzerland), BryCoat Inc. (US), Thermal Spray Technologies Engineered Coatings Solution (US), F.W. Gartner Thermal Spraying (US), Arc Spray (Pty) Ltd. (South Africa), Metallisation Limited (UK), Plasma-Tec, Inc. (US), GTV Verschleiss-Schutz (Germany), and others.

Research Coverage:

The report defines, segments, and projects the thermal spray coatings market size based on process, material, end-use, and region. It strategically profiles the key players and comprehensively analyzes their market share and core competencies. It also tracks and analyzes competitive developments, such as expansions, agreements, and acquisitions undertaken by them in the market.

Reasons to Buy the Report:

The report is expected to help the market leaders/new entrants by providing them with the closest approximations of revenue numbers of the thermal spray coatings market and its segments. This report is also expected to help stakeholder businesses and the market's competitive landscape better, gain insights to improve the position of their companies and make suitable go-to-market strategies. It also enables stakeholders to understand the market's pulse and provides information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

- Analysis of key drivers (growing demand from the healthcare industry, the reduced maintenance cost of thermally sprayed parts, thermal spray substituting electroplating processes, the boom in the aerospace industry), restraints (stringent regulations for thermal spray coatings), opportunities (adoption of new measures to conserve energy & harness renewable energy sources), and challenges (lack of technical skills, low investment in R&D activities by end-use industries) influencing the growth of the thermal spray coatings market.

- Market Development: Comprehensive information about lucrative markets - the report analyses the thermal spray coatings market across varied regions.

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- Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the thermal spray coatings market.

- Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading players like Praxair ST Technologies, Inc. (US), H.C Starck GmbH (Germany), Bodycote (UK), and Oerlikon Metco (Switzerland), Surface Technology (UK), among others in the thermal spray coatings market.

## Table of Contents:

1	INTRODUCTION	38	
1.1	STUDY OBJECTIVES	38	
1.2	MARKET DEFINITION	38	
1.3	INCLUSIONS & EXCLUSIONS	39	
TABLE 1 THERMAL SPRAY COATINGS MARKET, BY PROCESS: INCLUSIONS & EXCLUSIONS			39
TABLE 2 THERMAL SPRAY COATINGS MARKET, BY MATERIAL: INCLUSIONS & EXCLUSIONS			39
TABLE 3 THERMAL SPRAY COATINGS MARKET, BY END-USE INDUSTRY: INCLUSIONS & EXCLUSIONS			39
TABLE 4 THERMAL SPRAY COATINGS MARKET, BY REGION: INCLUSIONS & EXCLUSIONS			40
1.4	MARKET SCOPE	41	
FIGURE 1 THERMAL SPRAY COATINGS MARKET SEGMENTATION			41
1.4.1	YEARS CONSIDERED	41	
1.5	CURRENCY CONSIDERED	41	
1.6	STAKEHOLDERS	42	
1.7	SUMMARY OF CHANGES	42	
2	RESEARCH METHODOLOGY	43	
2.1	RESEARCH DATA	43	
FIGURE 2 THERMAL SPRAY COATINGS MARKET: RESEARCH DESIGN			43
2.1.1	SECONDARY DATA	44	
2.1.1.1	Key data from secondary sources	44	
2.1.2	PRIMARY DATA	44	
2.1.2.1	Key data from primary sources	45	
2.1.2.2	Key industry insights	45	
2.1.2.3	Breakdown of primary interviews	46	
2.2	BASE NUMBER CALCULATION	46	
FIGURE 3 BASE NUMBER CALCULATION APPROACH 1			46
FIGURE 4 BASE NUMBER CALCULATION APPROACH 2			46
2.3	RECESSION IMPACT	47	
2.4	FORECAST NUMBER CALCULATION	47	
2.5	MARKET ENGINEERING PROCESS	47	
2.5.1	TOP-DOWN APPROACH	47	
FIGURE 5 MARKET SIZE ESTIMATION: TOP-DOWN APPROACH			47
2.5.2	BOTTOM-UP APPROACH	48	
FIGURE 6 MARKET SIZE ESTIMATION: BOTTOM-UP APPROACH			48
2.6	MARKET BREAKDOWN AND DATA TRIANGULATION	48	

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FIGURE 7	THERMAL SPRAY COATINGS MARKET: DATA TRIANGULATION	49
2.7	ASSUMPTIONS	49
2.8	LIMITATIONS	50
3	EXECUTIVE SUMMARY	51
TABLE 5	THERMAL SPRAY COATINGS MARKET SNAPSHOT	51
FIGURE 8	CERAMICS TO BE MOST WIDELY CONSUMED MATERIAL IN THERMAL SPRAY COATINGS MARKET BETWEEN 2023 AND 2028	52
FIGURE 9	AEROSPACE TO BE LARGEST END-USE INDUSTRY OF THERMAL SPRAY COATINGS	53
4	PREMIUM INSIGHTS	54
4.1	ATTRACTIVE OPPORTUNITIES FOR PLAYERS IN THERMAL SPRAY COATINGS MARKET	54
FIGURE 10	ASIA PACIFIC THERMAL SPRAY COATINGS MARKET TO GROW AT HIGHEST CAGR DURING FORECAST PERIOD	54
4.2	THERMAL SPRAY COATINGS MARKET, BY PROCESS	54
FIGURE 11	COMBUSTION FLAME SEGMENT TO LEAD MARKET DURING FORECAST PERIOD	54
4.3	THERMAL SPRAY COATINGS MARKET, BY REGION	55
FIGURE 12	NORTH AMERICA ACCOUNTED FOR LARGEST SHARE OF THERMAL SPRAY COATINGS MARKET IN 2022	55
4.4	NORTH AMERICA: THERMAL SPRAY COATINGS MARKET, BY MATERIAL AND COUNTRY	55
FIGURE 13	US ACCOUNTED FOR LARGER SHARE OF THERMAL SPRAY COATINGS MARKET IN NORTH AMERICA	55
5	MARKET OVERVIEW	56
5.1	INTRODUCTION	56
5.2	MARKET DYNAMICS	56
FIGURE 14	DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES IN THERMAL SPRAY COATINGS MARKET	57
5.2.1	DRIVERS	57
5.2.1.1	Growing demand from healthcare industry	57
5.2.1.2	Reduced maintenance cost of thermally sprayed parts	58
5.2.1.3	Thermal spray substituting electroplating processes	58
5.2.1.4	Boom in aerospace industry	58
5.2.2	RESTRAINTS	59
5.2.2.1	Stringent regulations for thermal spray coatings	59
5.2.3	OPPORTUNITIES	59
5.2.3.1	Adoption of new measures to conserve energy & harness renewable energy sources	59
5.2.4	CHALLENGES	60
5.2.4.1	Lack of technical skills	60
5.2.4.2	Low investment in R&D activities by end-use industries	60
5.3	PORTER'S FIVE FORCES ANALYSIS	61
FIGURE 15	PORTER'S FIVE FORCES ANALYSIS	61
5.3.1	BARGAINING POWER OF SUPPLIERS	61
5.3.1.1	Easy availability of raw materials	61
5.3.1.2	Presence of large number of suppliers	62
5.3.2	BARGAINING POWER OF BUYERS	62
5.3.2.1	Presence of large number of buyers	62
5.3.2.2	Large volume purchases	62
5.3.3	THREAT OF SUBSTITUTES	62
5.3.3.1	Availability of substitutes	62
5.3.3.2	Cost of available substitutes	62
5.3.4	THREAT OF NEW ENTRANTS	63
5.3.4.1	Presence of established players	63
5.3.4.2	Requirement for specific technical skills	63

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5.3.5	INTENSITY OF COMPETITIVE RIVALRY	63
5.3.5.1	Industry concentration	63
5.3.5.2	Exit barriers	63
6	INDUSTRY TRENDS	64
6.1	TECHNOLOGY ANALYSIS	64
6.2	CASE STUDY ANALYSIS	65
6.2.1	USE OF THERMAL SPRAY COATINGS FOR IMPROVED PERFORMANCE AND LIFESPAN IN AEROSPACE INDUSTRY	65
6.2.2	USE OF THERMAL SPRAY COATINGS FOR CORROSION PROTECTION IN OFFSHORE OIL & GAS INDUSTRY	65
6.2.3	THERMAL SPRAY COATINGS FOR WEAR PROTECTION IN MINING EQUIPMENT	66
6.3	VALUE CHAIN ANALYSIS	66
FIGURE 16	VALUE CHAIN ANALYSIS OF THERMAL SPRAY COATINGS MARKET	66
6.4	REGULATORY LANDSCAPE	68
6.4.1	REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS	68
6.5	KEY STAKEHOLDERS AND BUYING CRITERIA	69
6.5.1	KEY STAKEHOLDERS IN BUYING PROCESS	69
FIGURE 17	INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR TOP THREE END-USE INDUSTRIES	69
TABLE 6	INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR TOP THREE END-USE INDUSTRIES (%)	69
6.5.2	KEY BUYING CRITERIA, BY END-USE INDUSTRY	70
FIGURE 18	KEY BUYING CRITERIA	70
TABLE 7	KEY BUYING CRITERIA, BY TOP THREE END-USE INDUSTRIES	70
6.6	TRENDS/DISRUPTIONS IMPACTING CUSTOMER'S BUSINESS	71
FIGURE 19	REVENUE SHIFT & NEW REVENUE POCKETS FOR THERMAL SPRAY COATING MANUFACTURERS	71
6.7	KEY CONFERENCES AND EVENTS, 2023	71
TABLE 8	THERMAL SPRAY COATINGS MARKET: KEY CONFERENCES AND EVENTS	71
6.8	PATENT ANALYSIS	72
6.8.1	METHODOLOGY	72
6.8.2	PATENT PUBLICATION TRENDS	72
FIGURE 20	NUMBER OF PATENTS, YEAR-WISE (2014-2022)	72
6.8.3	INSIGHT	73
6.8.4	JURISDICTION ANALYSIS	73
FIGURE 21	CHINA ACCOUNTED FOR HIGHEST PATENT COUNT	73
6.8.5	TOP COMPANIES/APPLICANTS	74
FIGURE 22	TOP 10 COMPANIES/APPLICANTS WITH HIGHEST NUMBER OF PATENTS	74
6.8.6	MAJOR PATENTS	74
6.9	ECOSYSTEM/MARKET MAP OF THERMAL SPRAY COATINGS	75
FIGURE 23	ECOSYSTEM/MARKET MAP OF THERMAL SPRAY COATINGS	75
TABLE 9	THERMAL SPRAY COATINGS MARKET: ECOSYSTEM	76
7	THERMAL SPRAY COATINGS MARKET, BY PROCESS	77
7.1	INTRODUCTION	78
FIGURE 24	COMBUSTION FLAME SEGMENT TO GROW AT HIGHER CAGR DURING FORECAST PERIOD	78
TABLE 10	THERMAL SPRAY COATINGS MARKET, BY PROCESS, 2017-2022 (USD MILLION)	78
TABLE 11	THERMAL SPRAY COATINGS MARKET, BY PROCESS, 2023-2028 (USD MILLION)	78
7.2	COMBUSTION FLAME	79
7.2.1	TYPES	79
7.2.1.1	Wire flame spraying	79
7.2.1.2	Powder flame spraying	79
7.2.1.3	Detonation gun spraying	79

7.2.1.4	Ceramic rod spraying	79
7.2.1.5	High Velocity Oxy Fuel (HVOF) process	79
TABLE 12	COMBUSTION FLAME THERMAL SPRAY COATINGS MARKET, BY REGION, 2017-2022 (USD MILLION)	80
TABLE 13	COMBUSTION FLAME THERMAL SPRAY COATINGS MARKET, BY REGION, 2023-2028 (USD MILLION)	80
7.3	ELECTRICAL	80
7.3.1	TYPES	80
7.3.1.1	Vacuum Plasma Spraying (VPS)	80
7.3.1.2	Atmospheric Plasma Spraying (APS)	80
7.3.1.3	Electric arc wire spraying	81
7.3.1.4	Plasma spraying	81
7.3.1.5	Arc spraying	81
7.3.1.6	Cold gas dynamic spray process	81
7.3.1.7	Radio Frequency (RF) plasma	81
7.3.1.8	Two-wire electric arc spraying	81
TABLE 14	ELECTRICAL THERMAL SPRAY COATINGS MARKET, BY REGION, 2017-2022 (USD MILLION)	82
TABLE 15	ELECTRICAL THERMAL SPRAY COATINGS MARKET, BY REGION, 2023-2028 (USD MILLION)	82
8	THERMAL SPRAY COATINGS MARKET, BY MATERIAL	83
8.1	INTRODUCTION	84
FIGURE 25	CERAMICS MATERIAL TO GROW AT HIGHEST CAGR DURING FORECAST PERIOD	84
TABLE 16	THERMAL SPRAY COATINGS MARKET, BY MATERIAL, 2017-2022 (USD MILLION)	84
TABLE 17	THERMAL SPRAY COATINGS MARKET, BY MATERIAL, 2023-2028 (USD MILLION)	84
8.2	CERAMICS	85
8.2.1	ALUMINA	85
8.2.2	ZIRCONIA	85
8.2.3	YTTRIA	85
TABLE 18	CERAMIC THERMAL SPRAY COATINGS MARKET, BY REGION, 2017-2022 (USD MILLION)	86
TABLE 19	CERAMIC THERMAL SPRAY COATINGS MARKET, BY REGION, 2023-2028 (USD MILLION)	86
8.3	METALS & ALLOYS	86
8.3.1	NICKEL	87
8.3.2	MOLYBDENUM	87
8.3.3	ALUMINUM	87
8.3.4	COBALT	87
8.3.5	ZINC	87
TABLE 20	METAL & ALLOY THERMAL SPRAY COATINGS MARKET, BY REGION, 2017-2022(USD MILLION) (PRE-COVID)	87
TABLE 21	METAL & ALLOY THERMAL SPRAY COATINGS MARKET, BY REGION, 2023-2028 (USD MILLION)	88
8.4	OTHERS	88
8.4.1	RESINS	88
8.4.2	POLYMERS	88
8.4.3	CARBIDES	88

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#### 8.4.4 COMPOSITES 89

TABLE 22 OTHER MATERIALS THERMAL SPRAY COATINGS MARKET, BY REGION, 2017-2022 (USD MILLION) 89

TABLE 23 OTHER MATERIALS THERMAL SPRAY COATINGS MARKET, BY REGION, 2023-2028 (USD MILLION) 89

#### 9 THERMAL SPRAY COATINGS MARKET, BY END-USE INDUSTRY 90

##### 9.1 INTRODUCTION 91

FIGURE 26 ENERGY & POWER INDUSTRY TO WITNESS HIGHEST CAGR DURING FORECAST PERIOD 91

TABLE 24 THERMAL SPRAY COATINGS MARKET, BY END-USE INDUSTRY, 2017-2022 (USD MILLION) 92

TABLE 25 THERMAL SPRAY COATINGS MARKET, BY END-USE INDUSTRY, 2023-2028 (USD MILLION) 92

##### 9.2 AEROSPACE 92

###### 9.2.1 FLAME TUBES 93

###### 9.2.2 TURBINE BLADES 93

###### 9.2.3 LANDING GEAR 93

TABLE 26 THERMAL SPRAY COATINGS MARKET IN AEROSPACE, BY REGION, 2017-2022 (USD MILLION) 94

TABLE 27 THERMAL SPRAY COATINGS MARKET IN AEROSPACE, BY REGION, 2023-2028 (USD MILLION) 94

##### 9.3 AUTOMOTIVE 94

###### 9.3.1 SUSPENSION PARTS 95

###### 9.3.2 PISTON RINGS 95

###### 9.3.3 TURBOCHARGERS 95

###### 9.3.4 ENGINE PARTS 95

###### 9.3.5 CHASSIS 95

###### 9.3.6 CYLINDER LINERS 95

###### 9.3.7 EXHAUST PIPES 95

TABLE 28 THERMAL SPRAY COATINGS MARKET IN AUTOMOTIVE, BY REGION, 2017-2022 (USD MILLION) 96

TABLE 29 THERMAL SPRAY COATINGS MARKET IN AUTOMOTIVE, BY REGION, 2023-2028 (USD MILLION) 96

##### 9.4 HEALTHCARE 96

###### 9.4.1 ORTHOPEDICS 97

###### 9.4.2 MEDICAL INSTRUMENTS 97

###### 9.4.3 OVER-THE-COUNTER MEDICINES 97

TABLE 30 THERMAL SPRAY COATINGS MARKET IN HEALTHCARE, BY REGION, 2017-2022 (USD MILLION) 97

TABLE 31 THERMAL SPRAY COATINGS MARKET IN HEALTHCARE, BY REGION, 2023-2028 (USD MILLION) 97

##### 9.5 ENERGY & POWER 98

###### 9.5.1 BOILERS 98

###### 9.5.2 SHAFTS 98

###### 9.5.3 HYDRO TURBINES 98

###### 9.5.4 POWER GENERATORS 98

###### 9.5.5 COMPRESSOR BLADES 98

TABLE 32 THERMAL SPRAY COATINGS MARKET IN ENERGY & POWER, BY REGION, 2017-2022 (USD MILLION) 99

TABLE 33 THERMAL SPRAY COATINGS MARKET IN ENERGY & POWER, BY REGION, 2023-2028 (USD MILLION) 99

##### 9.6 ELECTRONICS 99

###### 9.6.1 ELECTRONIC ENCLOSURES 99

###### 9.6.2 INSTRUMENT NUTS 99

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9.6.3	MAGNETIC TAPES	100
9.6.4	DIELECTRIC COATINGS	100
9.6.5	SHIELDING	100
TABLE 34	THERMAL SPRAY COATINGS MARKET IN ELECTRONICS, BY REGION, 2017-2022 (USD MILLION)	100
TABLE 35	THERMAL SPRAY COATINGS MARKET IN ELECTRONICS, BY REGION, 2023-2028 (USD MILLION)	100
9.7	AGRICULTURAL MACHINERY	101
9.7.1	HARVESTER BLADES	101
9.7.2	BALERS	101
9.7.3	COMPRESSORS	101
9.7.4	THRESHING COMPONENTS	101
9.7.5	AGRICULTURAL PUMPS & WASTEWATER TREATMENT EQUIPMENT	101
TABLE 36	THERMAL SPRAY COATINGS MARKET IN AGRICULTURAL MACHINERY, BY REGION, 2017-2022 (USD MILLION)	102
TABLE 37	THERMAL SPRAY COATINGS MARKET IN AGRICULTURAL MACHINERY, BY REGION, 2023-2028 (USD MILLION)	102
9.8	OTHERS	102
9.8.1	FOOD PROCESSING	102
9.8.2	DEFENSE	103
9.8.3	PRINTING	103
TABLE 38	THERMAL SPRAY COATINGS MARKET IN OTHER INDUSTRIES, BY REGION, 2017-2022 (USD MILLION)	103
TABLE 39	THERMAL SPRAY COATINGS MARKET IN OTHER INDUSTRIES, BY REGION, 2023-2028 (USD MILLION)	103
10	REGIONAL ANALYSIS	104
10.1	INTRODUCTION	105
TABLE 40	THERMAL SPRAY COATINGS MARKET, BY REGION, 2017-2022 (USD MILLION)	105
TABLE 41	THERMAL SPRAY COATINGS MARKET, BY REGION 2023-2028 (USD MILLION)	105
10.2	ASIA PACIFIC	106
10.2.1	RECESSION IMPACT	106
FIGURE 27	ASIA PACIFIC: THERMAL SPRAY COATINGS MARKET SNAPSHOT	106
TABLE 42	ASIA PACIFIC: THERMAL SPRAY COATINGS MARKET, BY COUNTRY, 2017-2022 (USD MILLION)	107
TABLE 43	ASIA PACIFIC: THERMAL SPRAY COATINGS MARKET, BY COUNTRY, 2023-2028 (USD MILLION)	107
TABLE 44	ASIA PACIFIC: THERMAL SPRAY COATINGS MARKET, BY PROCESS, 2017-2022 (USD MILLION)	107
TABLE 45	ASIA PACIFIC: THERMAL SPRAY COATINGS MARKET, BY PROCESS, 2023-2028 (USD MILLION)	108
TABLE 46	ASIA PACIFIC: THERMAL SPRAY COATINGS MARKET, BY MATERIAL, 2017-2022 (USD MILLION)	108
TABLE 47	ASIA PACIFIC: THERMAL SPRAY COATINGS MARKET, BY MATERIAL, 2023-2028 (USD MILLION)	108
TABLE 48	ASIA PACIFIC: THERMAL SPRAY COATINGS MARKET, BY END-USE INDUSTRY, 2017-2022 (USD MILLION)	109
TABLE 49	ASIA PACIFIC: THERMAL SPRAY COATINGS MARKET, BY END-USE INDUSTRY, 2023-2028 (USD MILLION)	109
10.2.2	CHINA	109
10.2.2.1	Massive industrial growth to drive market	109
TABLE 50	CHINA: THERMAL SPRAY COATINGS MARKET, BY PROCESS, 2017-2022 (USD MILLION)	110
TABLE 51	CHINA: THERMAL SPRAY COATINGS MARKET, BY PROCESS, 2023-2028 (USD MILLION)	110
TABLE 52	CHINA: THERMAL SPRAY COATINGS MARKET, BY MATERIAL, 2017-2022 (USD MILLION)	110
TABLE 53	CHINA: THERMAL SPRAY COATINGS MARKET, BY MATERIAL, 2023-2028 (USD MILLION)	110
TABLE 54	CHINA: THERMAL SPRAY COATINGS MARKET, BY END-USE INDUSTRY, 2017-2022 (USD MILLION)	111
TABLE 55	CHINA: THERMAL SPRAY COATINGS MARKET, BY END-USE INDUSTRY, 2023-2028 (USD MILLION)	111
10.2.3	JAPAN	111

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10.2.3.1 Increasing urbanization, capital investments, and technological advancements to drive market 111  
 TABLE 56 JAPAN: THERMAL SPRAY COATINGS MARKET, BY PROCESS, 2017-2022 (USD MILLION) 112  
 TABLE 57 JAPAN: THERMAL SPRAY COATINGS MARKET, BY PROCESS, 2023-2028 (USD MILLION) 112  
 TABLE 58 JAPAN: THERMAL SPRAY COATINGS MARKET, BY MATERIAL, 2017-2022 (USD MILLION) 112  
 TABLE 59 JAPAN: THERMAL SPRAY COATINGS MARKET, BY MATERIAL, 2023-2028 (USD MILLION) 112  
 TABLE 60 JAPAN: THERMAL SPRAY COATINGS MARKET, BY END-USE INDUSTRY, 2017-2022 (USD MILLION) 113  
 TABLE 61 JAPAN: THERMAL SPRAY COATINGS MARKET, BY END-USE INDUSTRY, 2023-2028 (USD MILLION) 113  
 10.2.4 INDIA 113

10.2.4.1 Increasing foreign investments to drive market 113  
 TABLE 62 INDIA: THERMAL SPRAY COATINGS MARKET, BY PROCESS, 2017-2022 (USD MILLION) 114  
 TABLE 63 INDIA: THERMAL SPRAY COATINGS MARKET, BY PROCESS, 2023-2028 (USD MILLION) 114  
 TABLE 64 INDIA: THERMAL SPRAY COATINGS MARKET, BY MATERIAL, 2017-2022 (USD MILLION) 114  
 TABLE 65 INDIA: THERMAL SPRAY COATINGS MARKET, BY MATERIAL, 2023-2028 (USD MILLION) 114  
 TABLE 66 INDIA: THERMAL SPRAY COATINGS MARKET, BY END-USE INDUSTRY, 2017-2022 (USD MILLION) 115  
 TABLE 67 INDIA: THERMAL SPRAY COATINGS MARKET, BY END-USE INDUSTRY, 2023-2028 (USD MILLION) 115  
 ?

#### 10.2.5 SOUTH KOREA 115

10.2.5.1 Technological advancements in electronics to drive market 115  
 TABLE 68 SOUTH KOREA: THERMAL SPRAY COATINGS MARKET, BY PROCESS, 2017-2022 (USD MILLION) 116  
 TABLE 69 SOUTH KOREA: THERMAL SPRAY COATINGS MARKET, BY PROCESS, 2023-2028 (USD MILLION) 116  
 TABLE 70 SOUTH KOREA: THERMAL SPRAY COATINGS MARKET, BY MATERIAL, 2017-2022 (USD MILLION) 116  
 TABLE 71 SOUTH KOREA: THERMAL SPRAY COATINGS MARKET, BY MATERIAL, 2023-2028 (USD MILLION) 116  
 TABLE 72 SOUTH KOREA: THERMAL SPRAY COATINGS MARKET, BY END-USE INDUSTRY, 2017-2022 (USD MILLION) 117  
 TABLE 73 SOUTH KOREA: THERMAL SPRAY COATINGS MARKET, BY END-USE INDUSTRY, 2023-2028 (USD MILLION) 117

#### 10.2.6 VIETNAM 117

10.2.6.1 Availability of raw materials to drive market 117  
 TABLE 74 VIETNAM: THERMAL SPRAY COATINGS MARKET, BY PROCESS, 2017-2022 (USD MILLION) 118  
 TABLE 75 VIETNAM: THERMAL SPRAY COATINGS MARKET, BY PROCESS, 2023-2028 (USD MILLION) 118  
 TABLE 76 VIETNAM: THERMAL SPRAY COATINGS MARKET, BY MATERIAL, 2017-2022 (USD MILLION) 118  
 TABLE 77 VIETNAM: THERMAL SPRAY COATINGS MARKET, BY MATERIAL, 2023-2028 (USD MILLION) 118  
 TABLE 78 VIETNAM: THERMAL SPRAY COATINGS MARKET, BY END-USE INDUSTRY, 2017-2022 (USD MILLION) 119  
 TABLE 79 VIETNAM: THERMAL SPRAY COATINGS MARKET, BY END-USE INDUSTRY, 2023-2028 (USD MILLION) 119

#### 10.2.7 REST OF ASIA PACIFIC 119

TABLE 80 REST OF ASIA PACIFIC: THERMAL SPRAY COATINGS MARKET, BY PROCESS, 2017-2022 (USD MILLION) 120  
 TABLE 81 REST OF ASIA PACIFIC: THERMAL SPRAY COATINGS MARKET, BY PROCESS, 2023-2028 (USD MILLION) 120  
 TABLE 82 REST OF ASIA PACIFIC: THERMAL SPRAY COATINGS MARKET, BY MATERIAL, 2017-2022 (USD MILLION) 120  
 TABLE 83 REST OF ASIA PACIFIC: THERMAL SPRAY COATINGS MARKET, BY MATERIAL, 2023-2028 (USD MILLION) 120  
 TABLE 84 REST OF ASIA PACIFIC: THERMAL SPRAY COATINGS MARKET, BY END-USE INDUSTRY, 2017-2022 (USD MILLION) 121  
 TABLE 85 REST OF ASIA PACIFIC: THERMAL SPRAY COATINGS MARKET, BY END-USE INDUSTRY, 2023-2028 (USD MILLION) 121

#### 10.3 EUROPE 121

##### 10.3.1 RECESSION IMPACT 122

FIGURE 28 EUROPE: THERMAL SPRAY COATINGS MARKET SNAPSHOT 122

TABLE 86 EUROPE: THERMAL SPRAY COATINGS MARKET, BY COUNTRY, 2017-2022 (USD MILLION) 123  
 TABLE 87 EUROPE: THERMAL SPRAY COATINGS MARKET, BY COUNTRY, 2023-2028 (USD MILLION) 123  
 TABLE 88 EUROPE: THERMAL SPRAY COATINGS MARKET, BY PROCESS, 2017-2022 (USD MILLION) 123  
 TABLE 89 EUROPE: THERMAL SPRAY COATINGS MARKET, BY PROCESS, 2023-2028 (USD MILLION) 124  
 TABLE 90 EUROPE: THERMAL SPRAY COATINGS MARKET, BY MATERIAL, 2017-2022(USD MILLION) 124

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TABLE 91	EUROPE: THERMAL SPRAY COATINGS MARKET, BY MATERIAL, 2023-2028 (USD MILLION)	124
TABLE 92	EUROPE: THERMAL SPRAY COATINGS MARKET, BY END-USE INDUSTRY, 2017-2022 (USD MILLION)	125
TABLE 93	EUROPE: THERMAL SPRAY COATINGS MARKET, BY END-USE INDUSTRY, 2023-2028 (USD MILLION)	125
10.3.2	GERMANY	125
10.3.2.1	Growth of end-use industries to drive market	125
TABLE 94	GERMANY: THERMAL SPRAY COATINGS MARKET, BY PROCESS, 2017-2022 (USD MILLION)	126
TABLE 95	GERMANY: THERMAL SPRAY COATINGS MARKET, BY PROCESS, 2023-2028 (USD MILLION)	126
TABLE 96	GERMANY: THERMAL SPRAY COATINGS MARKET, BY MATERIAL, 2017-2022 (USD MILLION)	126
TABLE 97	GERMANY: THERMAL SPRAY COATINGS MARKET, BY MATERIAL, 2023-2028 (USD MILLION)	127
TABLE 98	GERMANY: THERMAL SPRAY COATINGS MARKET, BY END-USE INDUSTRY, 2017-2022 (USD MILLION)	127
TABLE 99	GERMANY: THERMAL SPRAY COATINGS MARKET, BY END-USE INDUSTRY, 2023-2028 (USD MILLION)	127
10.3.3	UK	128
10.3.3.1	Increased production of automobiles and government investments to fuel market	128
TABLE 100	UK: THERMAL SPRAY COATINGS MARKET, BY PROCESS, 2017-2022 (USD MILLION)	128
TABLE 101	UK: THERMAL SPRAY COATINGS MARKET, BY PROCESS, 2023-2028 (USD MILLION)	128
TABLE 102	UK: THERMAL SPRAY COATINGS MARKET, BY MATERIAL, 2017-2022 (USD MILLION)	128
TABLE 103	UK: THERMAL SPRAY COATINGS MARKET, BY MATERIAL, 2023-2028 (USD MILLION)	129
TABLE 104	UK: THERMAL SPRAY COATINGS MARKET, BY END-USE INDUSTRY, 2017-2022 (USD MILLION)	129
TABLE 105	UK: THERMAL SPRAY COATINGS MARKET, BY END-USE INDUSTRY, 2023-2028 (USD MILLION)	129
10.3.4	RUSSIA	130
10.3.4.1	Growth of automotive industry to drive market	130
TABLE 106	RUSSIA: THERMAL SPRAY COATINGS MARKET, BY PROCESS, 2017-2022 (USD MILLION)	130
TABLE 107	RUSSIA: THERMAL SPRAY COATINGS MARKET, BY PROCESS, 2023-2028 (USD MILLION)	130
TABLE 108	RUSSIA: THERMAL SPRAY COATINGS MARKET, BY MATERIAL, 2017-2022 (USD MILLION)	130
TABLE 109	RUSSIA: THERMAL SPRAY COATINGS MARKET, BY MATERIAL, 2023-2028 (USD MILLION)	131
TABLE 110	RUSSIA: THERMAL SPRAY COATINGS MARKET, BY END-USE INDUSTRY, 2017-2022 (USD MILLION)	131
TABLE 111	RUSSIA: THERMAL SPRAY COATINGS MARKET, BY END-USE INDUSTRY, 2023-2028 (USD MILLION)	131
10.3.5	ITALY	132
10.3.5.1	Increased investments in healthcare and automotive industries to fuel market	132
TABLE 112	ITALY: THERMAL SPRAY COATINGS MARKET, BY PROCESS, 2017-2022 (USD MILLION)	132
TABLE 113	ITALY: THERMAL SPRAY COATINGS MARKET, BY PROCESS, 2023-2028 (USD MILLION)	132
TABLE 114	ITALY: THERMAL SPRAY COATINGS MARKET, BY MATERIAL, 2017-2022 (USD MILLION)	132
TABLE 115	ITALY: THERMAL SPRAY COATINGS MARKET, BY MATERIAL, 2023-2028 (USD MILLION)	133
TABLE 116	ITALY: THERMAL SPRAY COATINGS MARKET, BY END-USE INDUSTRY, 2017-2022 (USD MILLION)	133
TABLE 117	ITALY: THERMAL SPRAY COATINGS MARKET, BY END-USE INDUSTRY, 2023-2028 (USD MILLION)	133
10.3.6	FRANCE	134
10.3.6.1	Growth of aerospace industry to drive consumption	134
TABLE 118	FRANCE: THERMAL SPRAY COATINGS MARKET, BY PROCESS, 2017-2022 (USD MILLION)	134
TABLE 119	FRANCE: THERMAL SPRAY COATINGS MARKET, BY PROCESS, 2023-2028 (USD MILLION)	134
TABLE 120	FRANCE: THERMAL SPRAY COATINGS MARKET, BY MATERIAL, 2017-2022 (USD MILLION)	135
TABLE 121	FRANCE: THERMAL SPRAY COATINGS MARKET, BY MATERIAL, 2023-2028 (USD MILLION)	135
TABLE 122	FRANCE: THERMAL SPRAY COATINGS MARKET, BY END-USE INDUSTRY, 2017-2022 (USD MILLION)	135
TABLE 123	FRANCE: THERMAL SPRAY COATINGS MARKET, BY END-USE INDUSTRY, 2023-2028 (USD MILLION)	136
10.3.7	BELGIUM	136
10.3.7.1	Growth of automotive & healthcare industries to drive market	136
TABLE 124	BELGIUM: THERMAL SPRAY COATINGS MARKET, BY PROCESS, 2017-2022 (USD MILLION)	137
TABLE 125	BELGIUM: THERMAL SPRAY COATINGS MARKET, BY PROCESS, 2023-2028 (USD MILLION)	137

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TABLE 126	BELGIUM: THERMAL SPRAY COATINGS MARKET, BY MATERIAL, 2017-2022 (USD MILLION)	137
TABLE 127	BELGIUM: THERMAL SPRAY COATINGS MARKET, BY MATERIAL, 2023-2028 (USD MILLION)	137
TABLE 128	BELGIUM: THERMAL SPRAY COATINGS MARKET, BY END-USE INDUSTRY, 2017-2022 (USD MILLION)	138
TABLE 129	BELGIUM: THERMAL SPRAY COATINGS MARKET, BY END-USE INDUSTRY, 2023-2028 (USD MILLION)	138
10.3.8	REST OF EUROPE	138
TABLE 130	REST OF EUROPE: THERMAL SPRAY COATINGS MARKET, BY PROCESS, 2017-2022 (USD MILLION)	139
TABLE 131	REST OF EUROPE: THERMAL SPRAY COATINGS MARKET, BY PROCESS, 2023-2028 (USD MILLION)	139
TABLE 132	REST OF EUROPE: THERMAL SPRAY COATINGS MARKET, BY MATERIAL, 2017-2022 (USD MILLION)	139
TABLE 133	REST OF EUROPE: THERMAL SPRAY COATINGS MARKET, BY MATERIAL, 2023-2028 (USD MILLION)	139
TABLE 134	REST OF EUROPE: THERMAL SPRAY COATINGS MARKET, BY END-USE INDUSTRY, 2017-2022 (USD MILLION)	140
TABLE 135	REST OF EUROPE: THERMAL SPRAY COATINGS MARKET, BY END-USE INDUSTRY, 2023-2028 (USD MILLION)	140
10.4	NORTH AMERICA	140
10.4.1	RECESSION IMPACT	141
FIGURE 29	NORTH AMERICA: THERMAL SPRAY COATINGS MARKET SNAPSHOT	141
TABLE 136	NORTH AMERICA: THERMAL SPRAY COATINGS MARKET, BY COUNTRY, 2017-2022 (USD MILLION)	142
TABLE 137	NORTH AMERICA: THERMAL SPRAY COATINGS MARKET, BY COUNTRY, 2023-2028 (USD MILLION)	142
TABLE 138	NORTH AMERICA: THERMAL SPRAY COATINGS MARKET, BY PROCESS, 2017-2022 (USD MILLION)	142
TABLE 139	NORTH AMERICA: THERMAL SPRAY COATINGS MARKET, BY PROCESS, 2023-2028 (USD MILLION)	142
TABLE 140	NORTH AMERICA: THERMAL SPRAY COATINGS MARKET, BY MATERIAL, 2017-2022 (USD MILLION)	143
TABLE 141	NORTH AMERICA: THERMAL SPRAY COATINGS MARKET, BY MATERIAL, 2023-2028 (USD MILLION)	143
TABLE 142	NORTH AMERICA: THERMAL SPRAY COATINGS MARKET, BY END-USE INDUSTRY, 2017-2022 (USD MILLION)	143
TABLE 143	NORTH AMERICA: THERMAL SPRAY COATINGS MARKET, BY END-USE INDUSTRY, 2023-2028 (USD MILLION)	144
10.4.2	US	144
10.4.2.1	US to lead North American thermal spray coatings market	144
TABLE 144	US: THERMAL SPRAY COATINGS MARKET, BY PROCESS, 2017-2022 (USD MILLION)	144
TABLE 145	US: THERMAL SPRAY COATINGS MARKET, BY PROCESS, 2023-2028 (USD MILLION)	145
TABLE 146	US: THERMAL SPRAY COATINGS MARKET, BY MATERIAL, 2017-2022 (USD MILLION)	145
TABLE 147	US: THERMAL SPRAY COATINGS MARKET, BY MATERIAL, 2023-2028 (USD MILLION)	145
TABLE 148	US: THERMAL SPRAY COATINGS MARKET, BY END-USE INDUSTRY, 2017-2022 (USD MILLION)	145
TABLE 149	US: THERMAL SPRAY COATINGS MARKET, BY END-USE INDUSTRY, 2023-2028 (USD MILLION)	146
?		
10.4.3	CANADA	146
10.4.3.1	Increase in investments to drive growth	146
TABLE 150	CANADA: THERMAL SPRAY COATINGS MARKET, BY PROCESS, 2017-2022 (USD MILLION)	146
TABLE 151	CANADA: THERMAL SPRAY COATINGS MARKET, BY PROCESS, 2023-2028 (USD MILLION)	147
TABLE 152	CANADA: THERMAL SPRAY COATINGS MARKET, BY MATERIAL, 2017-2022 (USD MILLION)	147
TABLE 153	CANADA: THERMAL SPRAY COATINGS MARKET, BY MATERIAL, 2023-2028 (USD MILLION)	147
TABLE 154	CANADA: THERMAL SPRAY COATINGS MARKET, BY END-USE INDUSTRY, 2017-2022 (USD MILLION)	148
TABLE 155	CANADA: THERMAL SPRAY COATINGS MARKET, BY END-USE INDUSTRY, 2023-2028 (USD MILLION)	148
10.5	LATIN AMERICA	149
10.5.1	RECESSION IMPACT	149
TABLE 156	LATIN AMERICA: THERMAL SPRAY COATINGS MARKET, BY COUNTRY, 2017-2022 (USD MILLION)	149
TABLE 157	LATIN AMERICA: THERMAL SPRAY COATINGS MARKET, BY COUNTRY, 2023-2028 (USD MILLION)	149
TABLE 158	LATIN AMERICA: THERMAL SPRAY COATINGS MARKET, BY PROCESS, 2017-2022 (USD MILLION)	150
TABLE 159	LATIN AMERICA: THERMAL SPRAY COATINGS MARKET, BY PROCESS, 2023-2028 (USD MILLION)	150
TABLE 160	LATIN AMERICA: THERMAL SPRAY COATINGS MARKET, BY MATERIAL, 2017-2022 (USD MILLION)	150
TABLE 161	LATIN AMERICA: THERMAL SPRAY COATINGS MARKET, BY MATERIAL, 2023-2028 (USD MILLION)	150

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TABLE 162	LATIN AMERICA: THERMAL SPRAY COATINGS MARKET, BY END-USE INDUSTRY, 2017-2022 (USD MILLION)	151
TABLE 163	LATIN AMERICA: THERMAL SPRAY COATINGS MARKET, BY END-USE INDUSTRY, 2023-2028 (USD MILLION)	151
10.5.2	MEXICO	151
10.5.2.1	Increased investments in automotive industry to support growth	151
TABLE 164	MEXICO: THERMAL SPRAY COATINGS MARKET, BY PROCESS, 2017-2022 (USD MILLION)	152
TABLE 165	MEXICO: THERMAL SPRAY COATINGS MARKET, BY PROCESS, 2023-2028 (USD MILLION)	152
TABLE 166	MEXICO: THERMAL SPRAY COATINGS MARKET, BY MATERIAL, 2017-2022 (USD MILLION)	152
TABLE 167	MEXICO: THERMAL SPRAY COATINGS MARKET, BY MATERIAL, 2023-2028 (USD MILLION)	152
TABLE 168	MEXICO: THERMAL SPRAY COATINGS MARKET, BY END-USE INDUSTRY, 2017-2022 (USD MILLION)	153
TABLE 169	MEXICO: THERMAL SPRAY COATINGS MARKET, BY END-USE INDUSTRY, 2023-2028 (USD MILLION)	153
?		
10.5.3	BRAZIL	153
10.5.3.1	Growth of automotive industry to drive market	153
TABLE 170	BRAZIL: THERMAL SPRAY COATINGS MARKET, BY PROCESS, 2017-2022 (USD MILLION)	154
TABLE 171	BRAZIL: THERMAL SPRAY COATINGS MARKET, BY PROCESS, 2023-2028 (USD MILLION)	154
TABLE 172	BRAZIL: THERMAL SPRAY COATINGS MARKET, BY MATERIAL, 2017-2022 (USD MILLION)	154
TABLE 173	BRAZIL: THERMAL SPRAY COATINGS MARKET, BY MATERIAL, 2023-2028 (USD MILLION)	154
TABLE 174	BRAZIL: THERMAL SPRAY COATINGS MARKET, BY END-USE INDUSTRY, 2017-2022 (USD MILLION)	155
TABLE 175	BRAZIL: THERMAL SPRAY COATINGS MARKET, BY END-USE INDUSTRY, 2023-2028 (USD MILLION)	155
10.5.4	COLOMBIA	155
10.5.4.1	Growing automotive and construction industries to drive market	155
TABLE 176	COLOMBIA: THERMAL SPRAY COATINGS MARKET, BY PROCESS, 2017-2022 (USD MILLION)	156
TABLE 177	COLOMBIA: THERMAL SPRAY COATINGS MARKET, BY PROCESS, 2023-2028 (USD MILLION)	156
TABLE 178	COLOMBIA: THERMAL SPRAY COATINGS MARKET, BY MATERIAL, 2017-2022 (USD MILLION)	156
TABLE 179	COLOMBIA: THERMAL SPRAY COATINGS MARKET, BY MATERIAL, 2023-2028 (USD MILLION)	156
TABLE 180	COLOMBIA: THERMAL SPRAY COATINGS MARKET, BY END-USE INDUSTRY, 2017-2022 (USD MILLION)	157
TABLE 181	COLOMBIA: THERMAL SPRAY COATINGS MARKET, BY END-USE INDUSTRY, 2023-2028 (USD MILLION)	157
10.5.5	ARGENTINA	157
10.5.5.1	End-use industries to witness growth	157
TABLE 182	ARGENTINA: THERMAL SPRAY COATINGS MARKET, BY PROCESS, 2017-2022 (USD MILLION)	158
TABLE 183	ARGENTINA: THERMAL SPRAY COATINGS MARKET, BY PROCESS, 2023-2028 (USD MILLION)	158
TABLE 184	ARGENTINA: THERMAL SPRAY COATINGS MARKET, BY MATERIAL, 2017-2022 (USD MILLION)	158
TABLE 185	ARGENTINA: THERMAL SPRAY COATINGS MARKET, BY MATERIAL, 2023-2028 (USD MILLION)	158
TABLE 186	ARGENTINA: THERMAL SPRAY COATINGS MARKET, BY END-USE INDUSTRY, 2017-2022 (USD MILLION)	159
TABLE 187	ARGENTINA: THERMAL SPRAY COATINGS MARKET, BY END-USE INDUSTRY, 2023-2028 (USD MILLION)	159
10.5.6	REST OF LATIN AMERICA	159
TABLE 188	REST OF LATIN AMERICA: THERMAL SPRAY COATINGS MARKET, BY PROCESS, 2017-2022 (USD MILLION)	160
TABLE 189	REST OF LATIN AMERICA: THERMAL SPRAY COATINGS MARKET, BY PROCESS, 2023-2028 (USD MILLION)	160
TABLE 190	REST OF LATIN AMERICA: THERMAL SPRAY COATINGS MARKET, BY MATERIAL, 2017-2022 (USD MILLION)	160
TABLE 191	REST OF LATIN AMERICA: THERMAL SPRAY COATINGS MARKET, BY MATERIAL, 2023-2028 (USD MILLION)	160
TABLE 192	REST OF LATIN AMERICA: THERMAL SPRAY COATINGS MARKET, BY END-USE INDUSTRY, 2017-2022 (USD MILLION)	161
TABLE 193	REST OF LATIN AMERICA: THERMAL SPRAY COATINGS MARKET, BY END-USE INDUSTRY, 2023-2028 (USD MILLION)	161
10.6	MIDDLE EAST & AFRICA	161
10.6.1	RECESSION IMPACT	162
TABLE 194	MIDDLE EAST & AFRICA: THERMAL SPRAY COATINGS MARKET, BY COUNTRY, 2017-2022 (USD MILLION)	162
TABLE 195	MIDDLE EAST & AFRICA: THERMAL SPRAY COATINGS MARKET, BY COUNTRY, 2023-2028 (USD MILLION)	162
TABLE 196	MIDDLE EAST & AFRICA: THERMAL SPRAY COATINGS MARKET, BY PROCESS, 2017-2022 (USD MILLION)	162

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TABLE 197	MIDDLE EAST & AFRICA: THERMAL SPRAY COATINGS MARKET, BY PROCESS, 2023-2028 (USD MILLION)	163
TABLE 198	MIDDLE EAST & AFRICA: THERMAL SPRAY COATINGS MARKET, BY MATERIAL, 2017-2022 (USD MILLION)	163
TABLE 199	MIDDLE EAST & AFRICA: THERMAL SPRAY COATINGS MARKET, BY MATERIAL, 2023-2028 (USD MILLION)	163
TABLE 200	MIDDLE EAST & AFRICA: THERMAL SPRAY COATINGS MARKET, BY END-USE INDUSTRY, 2017-2022 (USD MILLION)	164
TABLE 201	MIDDLE EAST & AFRICA: THERMAL SPRAY COATINGS MARKET, BY END-USE INDUSTRY, 2023-2028 (USD MILLION)	164
10.6.2	SAUDI ARABIA	164
10.6.2.1	Growth of automotive industry to drive market	164
TABLE 202	SAUDI ARABIA: THERMAL SPRAY COATINGS MARKET, BY PROCESS, 2017-2022 (USD MILLION)	165
TABLE 203	SAUDI ARABIA: THERMAL SPRAY COATINGS MARKET, BY PROCESS, 2023-2028 (USD MILLION)	165
TABLE 204	SAUDI ARABIA: THERMAL SPRAY COATINGS MARKET, BY MATERIAL, 2017-2022 (USD MILLION)	165
TABLE 205	SAUDI ARABIA: THERMAL SPRAY COATINGS MARKET, BY MATERIAL, 2023-2028 (USD MILLION)	165
TABLE 206	SAUDI ARABIA: THERMAL SPRAY COATINGS MARKET, BY END-USE INDUSTRY, 2017-2022 (USD MILLION)	166
TABLE 207	SAUDI ARABIA: THERMAL SPRAY COATINGS MARKET, BY END-USE INDUSTRY, 2023-2028 (USD MILLION)	166
10.6.3	SOUTH AFRICA	166
10.6.3.1	Investments in manufacturing sector to drive market	166
TABLE 208	SOUTH AFRICA: THERMAL SPRAY COATINGS MARKET, BY PROCESS, 2017-2022 (USD MILLION)	167
TABLE 209	SOUTH AFRICA: THERMAL SPRAY COATINGS MARKET, BY PROCESS, 2023-2028 (USD MILLION)	167
TABLE 210	SOUTH AFRICA: THERMAL SPRAY COATINGS MARKET, BY MATERIAL, 2017-2022 (USD MILLION)	167
TABLE 211	SOUTH AFRICA: THERMAL SPRAY COATINGS MARKET, BY MATERIAL, 2023-2028 (USD MILLION)	167
TABLE 212	SOUTH AFRICA: THERMAL SPRAY COATINGS MARKET, BY END-USE INDUSTRY, 2017-2022 (USD MILLION)	168
TABLE 213	SOUTH AFRICA: THERMAL SPRAY COATINGS MARKET, BY END-USE INDUSTRY, 2023-2028 (USD MILLION)	168
10.6.4	UAE	168
10.6.4.1	Rise in healthcare expenditure and growth of aviation sector to drive market	168
TABLE 214	UAE: THERMAL SPRAY COATINGS MARKET, BY PROCESS, 2017-2022 (USD MILLION)	169
TABLE 215	UAE: THERMAL SPRAY COATINGS MARKET, BY PROCESS, 2023-2028 (USD MILLION)	169
TABLE 216	UAE: THERMAL SPRAY COATINGS MARKET, BY MATERIAL, 2017-2022 (USD MILLION)	169
TABLE 217	UAE: THERMAL SPRAY COATINGS MARKET, BY MATERIAL, 2023-2028 (USD MILLION)	169
TABLE 218	UAE: THERMAL SPRAY COATINGS MARKET, BY END-USE INDUSTRY, 2017-2022 (USD MILLION)	170
TABLE 219	UAE: THERMAL SPRAY COATINGS MARKET, BY END-USE INDUSTRY, 2023-2028 (USD MILLION)	170
10.6.5	EGYPT	170
10.6.5.1	Increased focus on harnessing renewable energy and growth of healthcare industry to drive market	170
TABLE 220	EGYPT: THERMAL SPRAY COATINGS MARKET, BY PROCESS, 2017-2022 (USD MILLION)	171
TABLE 221	EGYPT: THERMAL SPRAY COATINGS MARKET, BY PROCESS, 2023-2028 (USD MILLION)	171
TABLE 222	EGYPT: THERMAL SPRAY COATINGS MARKET, BY MATERIAL, 2017-2022 (USD MILLION)	171
TABLE 223	EGYPT: THERMAL SPRAY COATINGS MARKET, BY MATERIAL, 2023-2028 (USD MILLION)	171
TABLE 224	EGYPT: THERMAL SPRAY COATINGS MARKET, BY END-USE INDUSTRY, 2017-2022 (USD MILLION)	172
TABLE 225	EGYPT: THERMAL SPRAY COATINGS MARKET, BY END-USE INDUSTRY, 2023-2028 (USD MILLION)	172
10.6.6	REST OF MIDDLE EAST & AFRICA	172
TABLE 226	REST OF MIDDLE EAST & AFRICA: THERMAL SPRAY COATINGS MARKET, BY PROCESS, 2017-2022 (USD MILLION)	173
TABLE 227	REST OF MIDDLE EAST & AFRICA: THERMAL SPRAY COATINGS MARKET, BY PROCESS, 2023-2028 (USD MILLION)	173
TABLE 228	REST OF MIDDLE EAST & AFRICA: THERMAL SPRAY COATINGS MARKET, BY MATERIAL, 2017-2022 (USD MILLION)	173
TABLE 229	REST OF MIDDLE EAST & AFRICA: THERMAL SPRAY COATINGS MARKET, BY MATERIAL, 2023-2028 (USD MILLION)	173
TABLE 230	REST OF MIDDLE EAST & AFRICA: THERMAL SPRAY COATINGS MARKET, BY END-USE INDUSTRY, 2017-2022 (USD MILLION)	174
TABLE 231	REST OF MIDDLE EAST & AFRICA: THERMAL SPRAY COATINGS MARKET, BY END-USE INDUSTRY, 2023-2028 (USD MILLION)	174
11	COMPETITIVE LANDSCAPE	175

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11.1	INTRODUCTION	175
11.2	STRATEGIES ADOPTED BY KEY MARKET PLAYERS	175
TABLE 232	STRATEGIES ADOPTED BY KEY THERMAL SPRAY COATINGS SERVICE PROVIDERS	175
11.3	MARKET SHARE ANALYSIS	177
11.3.1	RANKING OF KEY MARKET PLAYERS, 2022	177
FIGURE 30	RANKING OF TOP FIVE PLAYERS IN THERMAL SPRAY COATINGS MARKET, 2022	177
11.3.2	MARKET SHARE OF KEY PLAYERS	177
TABLE 233	THERMAL SPRAY COATINGS MARKET: DEGREE OF COMPETITION	178
FIGURE 31	PRAXAIR S.T. TECHNOLOGIES, INC. LED THERMAL SPRAY COATINGS MARKET IN 2022	178
11.3.3	REVENUE ANALYSIS OF TOP PLAYERS	179
FIGURE 32	TOP PLAYERS - REVENUE ANALYSIS (2018-2022)	179

**Thermal Spray Coatings Market by Materials (Ceramics and Metals & Alloys), Process (Combustion Flame and Electrical), End-Use Industry (Aerospace, Automotive, Healthcare, Agriculture, Energy & Power and Electronics) and Region - Global Forecast to 2028**

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