

**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**

Market Report | 2023-08-11 | 230 pages | MarketsandMarkets

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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
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
	TABLE 6	INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR TOP THREE END-USE INDUSTRIES (%)
6.5.2	KEY BUYING CRITERIA, BY END-USE INDUSTRY	70
	FIGURE 18	KEY BUYING CRITERIA
	TABLE 7	KEY BUYING CRITERIA, BY TOP THREE END-USE INDUSTRIES
6.6	TRENDS/DISRUPTIONS IMPACTING CUSTOMER'S BUSINESS	71
	FIGURE 19	REVENUE SHIFT & NEW REVENUE POCKETS FOR THERMAL SPRAY COATING MANUFACTURERS
6.7	KEY CONFERENCES AND EVENTS, 2023	71
	TABLE 8	THERMAL SPRAY COATINGS MARKET: KEY CONFERENCES AND EVENTS
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)
6.8.3	INSIGHT	73
6.8.4	JURISDICTION ANALYSIS	73
	FIGURE 21	CHINA ACCOUNTED FOR HIGHEST PATENT COUNT
6.8.5	TOP COMPANIES/APPLICANTS	74
	FIGURE 22	TOP 10 COMPANIES/APPLICANTS WITH HIGHEST NUMBER OF PATENTS
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
	TABLE 9	THERMAL SPRAY COATINGS MARKET: ECOSYSTEM
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
	TABLE 10	THERMAL SPRAY COATINGS MARKET, BY PROCESS, 2017-2022 (USD MILLION)
	TABLE 11	THERMAL SPRAY COATINGS MARKET, BY PROCESS, 2023-2028 (USD MILLION)
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

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- 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) 135

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

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