

Heat Transfer Fluids Market by Product Type (Mineral Oils, Synthetic Fluids, Glycol-Based Fluids, Other Product Types), Temperature (Low, Medium, High, Ultra-High), Application (Industrial Process Heating, Thermal Energy Storage, Chilled/Hot Water Loops, Pharmaceutical & Biotech, Power Generation & Waste Heat Recovery, Thermal Management, Other Applications), End-Use Industry (Chemical & Petrochemicals, Oil & Gas, Automotive, Food & Beverage, Pharmaceuticals, Hvac, Renewable Energy, Other End-Use Industries), and Region - Global Forecast to 2030

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Report description:

The heat transfer fluids market is projected to grow from USD 5.1 billion in 2025 to USD 6.3 billion by 2030, registering a CAGR of 4.3% during the forecast period.

<https://www.marketsandmarkets.com/Images/thermic-fluid-market-Overview.webp>

The growth of the heat transfer fluids market is driven by several key factors, including rapid industrialization, rising energy efficiency needs, and the expansion of major end-use industries. As industrial processes become more advanced and widespread, especially in emerging economies, the requirement for effective thermal management solutions becomes crucial. Industries such as chemical, petrochemical, automotive, food and beverage, pharmaceuticals, and HVAC heavily rely on heat transfer fluids to

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maintain optimal operating temperatures and ensure efficient processes. The increasing emphasis on energy conservation and efficiency further propels the market, as heat transfer fluids are essential in reducing energy consumption and improving overall thermal system performance. Additionally, the adoption of renewable energy sources like solar and wind power demands advanced heat transfer fluids for energy storage and transfer. Technological innovations in heat transfer fluid formulations-offering better thermal stability, lower maintenance, and higher safety-also support market expansion. Furthermore, strict environmental regulations and the shift toward sustainable industrial practices promote the use of high-performance, eco-friendly heat transfer fluids, expanding the market further. These combined factors create strong demand across various sectors, fueling overall market growth.

"Synthetic fluids, by product type, to be fastest-growing segment in terms of value during forecast period"

Synthetic fluids represent the fastest-growing and second-largest segment in the heat transfer fluids market due to their superior performance features, making them highly suitable for demanding industrial uses. Unlike mineral oils and glycol-based fluids, synthetic options provide exceptional thermal stability, enabling efficient operation at both high and low temperatures without breaking down. This quality makes them ideal for industries with strict thermal needs, such as chemical processing, pharmaceuticals, and high-temperature manufacturing. Additionally, synthetic fluids offer excellent heat transfer efficiency and lower volatility, improving system safety and durability. Their advanced formulas also resist oxidation and fouling better, which helps lower maintenance costs and extends the lifespan of heat transfer systems. Moreover, synthetic fluids often comply with stricter environmental and safety standards, making them a preferred choice in regions with rigorous regulations. Although they tend to be more costly than mineral oils, their long-term performance advantages and operational efficiency justify the investment, securing their prominent market share.

"Medium temperature to be second-largest segment in heat transfer fluids market in terms of value during forecast period"

Medium-temperature heat transfer fluids hold the second-largest market share in the heat transfer fluids industry because they provide an optimal balance between performance, cost, and versatility, making them suitable for a wide range of industrial operations. These fluids, usually functioning between 150degreeC and 400degreeC, are widely used in industries such as chemical processing, plastics, oil and gas, and food and beverage manufacturing, where consistent heating and cooling are needed but the extreme resistance of high-temperature or cryogenic fluids is not required. Their ability to deliver stable thermal performance without rapid degradation makes them highly cost-effective compared to high-temperature synthetics, while offering broader applicability than low-temperature fluids outside refrigeration and cold chain applications. In sectors like polymer and resin production, refining, and general manufacturing, medium-temperature HTFs ensure precise temperature control, reduce energy consumption, and improve process efficiency, making them essential. Moreover, the increasing industrialization in emerging economies and the need for energy-efficient and safer thermal management solutions are boosting demand for these fluids. Their versatility in both continuous and batch processes and easier maintenance and replacement cycles helps ensure that medium-temperature fluids remain the second most used category in the global heat transfer fluids market.

"Industrial processing to be fastest-growing application segment of heat transfer fluids in terms of value during forecast period"

Industrial processing is the fastest-growing segment in the heat transfer fluids (HTFs) market because global manufacturing is expanding quickly, driven by increasing demand for chemicals, polymers, pharmaceuticals, processed food, and metals. These industries need precise thermal management in processes like distillation, polymerization, crystallization, refining, and reactor heating, where HTFs ensure efficiency, safety, and product consistency. Growth in industrial processing is especially strong in emerging economies across Asia-Pacific, the Middle East, and Latin America, where rapid industrialization, urbanization, and infrastructure development are fueling significant investments in chemical plants, refineries, and manufacturing facilities. Additionally, stricter energy efficiency regulations and sustainability goals are encouraging industries to switch from traditional heating methods to advanced HTFs that reduce energy loss, extend equipment lifespan, and enhance operational reliability. Ongoing technological progress, including the development of eco-friendly and longer-lasting HTFs, further promotes adoption in industrial settings. Compared to other applications like HVAC or automotive, industrial processing uses larger volumes of HTFs but

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and This combination of expanding end-use industries, regulatory backing, and technological improvements makes industrial processing the fastest-growing application area for heat transfer fluids globally.

"HVAC to be fastest-growing end-use industry segment of heat transfer fluids market in terms of value during forecast period"

The HVAC industry is rapidly becoming the fastest-growing end-use sector for heat transfer fluids (HTFs) due to the increasing global demand for energy-efficient cooling and heating solutions in homes, businesses, and industry. Rapid urbanization, population growth, and higher living standards are boosting the need for air conditioning, refrigeration, and heating systems, especially in developing regions across Asia-Pacific, the Middle East, and Latin America. Meanwhile, mature markets in North America and Europe are increasingly upgrading HVAC systems to meet stricter energy efficiency and environmental standards, which boosts the adoption of advanced HTFs that offer better thermal performance with less energy loss. Additionally, the growth of cold chain logistics, data centers, and green buildings is raising demand for glycol-based and synthetic HTFs that can operate reliably across low- and medium-temperature ranges. With a greater focus on sustainability, manufacturers are also launching eco-friendly and non-toxic HTFs designed specifically for HVAC applications, further speeding up their adoption. Compared to other sectors, HVAC has high growth potential driven by ongoing system upgrades, climate change, increasing reliance on cooling, and policies promoting energy-efficient building tech. These factors make HVAC the fastest-growing end-use industry in the heat transfer fluids market.

In-depth interviews were conducted with Chief Executive Officers (CEOs), marketing directors, other innovation and technology directors, and executives from various key organizations in the heat transfer fluids market. Additionally, information was gathered through secondary research to assess and validate the market size of different segments.

-□By Company Type: Tier 1 - 50%, Tier 2 - 30%, and Tier 3 - 20%

-□By Designation: Managers- 15%, Directors - 20%, and Others - 65%

-□By Region: North America - 25%, Europe - 15%, Asia Pacific - 45%, Middle East & Africa - 10%, South America - 5%.

The heat transfer fluids market comprises Dow (US), Eastman Chemical Company (US), ExxonMobil (US), Chevron Corporation (US), Huntsman Corporation (US), Shell PLC (UK), Lanxess (Germany), Clariant (Switzerland), Wacker Chemie AG (Germany), Indian Oil Corporation Ltd. (India), and Schultz Canada Chemicals Ltd. (Canada). The study provides an in-depth competitive analysis of key players in the Heat transfer fluids market, including their company profiles, recent developments, and main market strategies.

Research Coverage

This report segments the heat transfer fluids market based on product type, temperature, application, end-use industry, and region, and provides estimates for the overall market value across different regions. A detailed analysis of key industry players has been conducted to offer insights into their business overviews, products and services, key strategies, and expansions related to the heat transfer fluids market.

Key benefits of buying report

This research report focuses on various levels of analysis - industry analysis (industry trends), market ranking analysis of top players, and company profiles, which together provide an overall view of the competitive landscape; emerging and high-growth segments of the Heat transfer fluids market; high-growth regions; and market drivers, restraints, opportunities, and challenges. The report provides insights into the following pointers:

-□Analysis of drivers: (Increasing expansion in renewable and industrial heat applications), restraints (Absence of standardized testing and performance criteria for EV cooling fluids), opportunities (Customized, application-specific formulations in HTF industry), and challenges (Balancing performance with environmental compliance).

-□Market Penetration: Comprehensive information on the heat transfer fluids offered by top players in the heat transfer fluids market.

-□Product Development/Innovation: Detailed insights into upcoming technologies, research and development activities,

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partnerships, agreements, joint ventures, collaborations, announcements, awards, and market expansion.

-□Market Development: The report provides comprehensive information about lucrative emerging markets and analyzes the heat transfer fluids market across regions.

-□Market Capacity: Production capacities of companies manufacturing heat transfer fluids are provided wherever available, along with upcoming capacities for the heat transfer fluids market.

-□Competitive Assessment: In-depth assessment of market shares, strategies, products, and manufacturing capabilities of leading players in the Heat transfer fluids market.

Table of Contents:

1	INTRODUCTION	25
1.1	STUDY OBJECTIVES	25
1.2	MARKET DEFINITION	25
1.3	STUDY SCOPE	26
1.3.1	MARKET SEGMENTATION AND REGIONAL SCOPE	26
1.3.2	YEARS CONSIDERED	27
1.3.3	INCLUSIONS AND EXCLUSIONS OF STUDY	27
1.3.4	CURRENCY CONSIDERED	28
1.3.5	UNITS CONSIDERED	28
1.4	LIMITATIONS	28
1.5	STAKEHOLDERS	28
2	RESEARCH METHODOLOGY	29
2.1	RESEARCH DATA	29
2.1.1	SECONDARY DATA	30
2.1.1.1	Key data from secondary sources	30
2.1.2	PRIMARY DATA	30
2.1.2.1	Key data from primary sources	31
2.1.2.2	Key primary sources	31
2.1.2.3	Key participants for primary interviews	31
2.1.2.4	Breakdown of interviews with experts	32
2.1.2.5	Key industry insights	32
2.2	BASE NUMBER CALCULATION	33
2.2.1	SUPPLY-SIDE ANALYSIS	33
2.2.2	DEMAND-SIDE ANALYSIS	33
2.3	GROWTH FORECAST	33
2.3.1	SUPPLY SIDE	33
2.3.2	DEMAND SIDE	34
2.4	MARKET SIZE ESTIMATION	34
2.4.1	BOTTOM-UP APPROACH	35
2.4.2	TOP-DOWN APPROACH	35
2.5	DATA TRIANGULATION	36
2.6	RESEARCH ASSUMPTIONS	37
2.7	GROWTH FORECAST	37
2.8	RISK ASSESSMENT	38
2.9	FACTOR ANALYSIS	39
3	EXECUTIVE SUMMARY	40
4	PREMIUM INSIGHTS	44
4.1	ATTRACTIVE OPPORTUNITIES FOR PLAYERS IN HEAT TRANSFER FLUIDS MARKET	44

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4.2	HEAT TRANSFER FLUIDS MARKET, BY PRODUCT TYPE	44
4.3	HEAT TRANSFER FLUIDS MARKET, BY TEMPERATURE	45
4.4	HEAT TRANSFER FLUIDS MARKET, BY END-USE INDUSTRY	45
4.5	HEAT TRANSFER FLUIDS MARKET, BY KEY COUNTRY	46
5	MARKET OVERVIEW	47
5.1	INTRODUCTION	47
5.2	MARKET DYNAMICS	47
5.2.1	DRIVERS	48
5.2.1.1	Expansion in renewable and industrial heat applications	48
5.2.1.2	Regulatory incentives and energy efficiency legislation	48
5.2.1.3	Lifecycle services and analytical programs by major suppliers	49
5.2.1.4	Rising adoption of immersion cooling in EVs and electronics	49
5.2.2	RESTRAINTS	50
5.2.2.1	Absence of standardized testing and performance criteria for EV cooling fluids	50
5.2.3	OPPORTUNITIES	50
5.2.3.1	Customized, application-specific formulations	50
5.2.3.2	Technological innovation in immersion and direct cooling	51
5.2.4	CHALLENGES	52
5.2.4.1	Balancing performance with environmental compliance	52
5.3	IMPACT OF GENERATIVE AI	52
5.3.1	INTRODUCTION	52
5.3.2	IMPACT OF GENERATIVE AI ON HEAT TRANSFER FLUIDS MARKET	53
6	INDUSTRY TRENDS	55
6.1	INTRODUCTION	55
6.2	TRENDS/DISRUPTIONS IMPACTING CUSTOMER BUSINESS	55
6.3	SUPPLY CHAIN ANALYSIS	56
6.4	PRICING ANALYSIS	58
6.4.1	AVERAGE SELLING PRICE TREND, BY REGION, 2021-2024	58
6.4.2	AVERAGE SELLING PRICE TREND, BY PRODUCT TYPE, 2021-2024	59
6.4.3	AVERAGE SELLING PRICE TREND OF KEY PLAYERS, BY PRODUCT TYPE, 2021-2024	59
6.5	INVESTMENT LANDSCAPE AND FUNDING SCENARIO	60
6.6	ECOSYSTEM ANALYSIS	61
6.7	TECHNOLOGY ANALYSIS	62
6.7.1	KEY TECHNOLOGIES	63
6.7.2	COMPLEMENTARY TECHNOLOGIES	63
6.7.3	ADJACENT TECHNOLOGIES	64
6.8	PATENT ANALYSIS	65
6.8.1	METHODOLOGY	65
6.8.2	PATENTS GRANTED WORLDWIDE, 2014-2024	65
6.8.3	PATENT PUBLICATION TRENDS	65
6.8.4	INSIGHTS	66
6.8.5	LEGAL STATUS OF PATENTS	66
6.8.6	JURISDICTION ANALYSIS	66
6.8.7	TOP APPLICANTS	67
6.8.8	LIST OF MAJOR PATENTS	68

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- 6.9 TRADE ANALYSIS 70
- 6.9.1 IMPORT SCENARIO (HS CODE 841950) 70
- 6.9.2 EXPORT SCENARIO (HS CODE 841950) 71
- 6.10 KEY CONFERENCES AND EVENTS, 2025-2026 71
- 6.11 TARIFF AND REGULATORY LANDSCAPE 72
- 6.11.1 TARIFF AND REGULATORY REGULATIONS RELATED TO HEAT TRANSFER FLUIDS MARKET 72
- 6.11.2 REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS 72
- 6.11.3 REGULATIONS RELATED TO HEAT TRANSFER FLUIDS MARKET 74
- 6.12 PORTER'S FIVE FORCES ANALYSIS 75
- 6.12.1 THREAT OF NEW ENTRANTS 76
- 6.12.2 THREAT OF SUBSTITUTES 77
- 6.12.3 BARGAINING POWER OF SUPPLIERS 77
- 6.12.4 BARGAINING POWER OF BUYERS 77
- 6.12.5 INTENSITY OF COMPETITIVE RIVALRY 77
- 6.13 KEY STAKEHOLDERS AND BUYING CRITERIA 78
- 6.13.1 KEY STAKEHOLDERS IN BUYING PROCESS 78
- 6.13.2 BUYING CRITERIA 78
- 6.14 MACROECONOMIC OUTLOOK 79
- 6.14.1 GDP TRENDS AND FORECASTS, BY COUNTRY 80
- 6.15 CASE STUDY ANALYSIS 80
- 6.15.1 ITC MAURYA ENHANCED HEAT PUMP EFFICIENCY WITH NANO-ENHANCED HEAT TRANSFER FLUIDS 80
- 6.15.2 ENHANCING SOLAR POWER PLANT EFFICIENCY THROUGH ADVANCED HEAT TRANSFER FLUID PERFORMANCE 81
- 6.15.3 EXTENDING THERMAL LIMITS AND RELIABILITY: VERSALIS' TRANSITION TO THERMINOL FOR HIGH-TEMPERATURE DISTILLATION 82
- 6.16 IMPACT OF 2025 US TARIFF - HEAT TRANSFER FLUIDS MARKET 82
- 6.16.1 INTRODUCTION 82
- 6.16.2 KEY TARIFF RATES 82
- 6.16.3 PRICE IMPACT ANALYSIS 83
- 6.16.4 IMPACT ON COUNTRY/REGION 83
- 6.16.4.1 US 83
- 6.16.4.2 Europe 83
- 6.16.4.3 Asia Pacific 83
- 6.16.5 IMPACT ON END-USE INDUSTRIES 84
- 7 HEAT TRANSFER FLUIDS MARKET, BY PRODUCT TYPE 85
- 7.1 INTRODUCTION 86
- 7.2 MINERAL OILS 87
- 7.2.1 COST-EFFECTIVE COMPARED TO GLYCOL-BASED AND SYNTHETIC FLUIDS-KEY FACTOR DRIVING MARKET GROWTH 87
- 7.3 SYNTHETIC FLUIDS 88
- 7.3.1 ENVIRONMENTALLY FRIENDLY NATURE TO SUPPORT ADOPTION 88
- 7.4 GLYCOL-BASED FLUIDS 88
- 7.4.1 OFFER EXCELLENT CORROSION INHIBITION PROPERTIES-KEY FACTOR PROPELLING MARKET GROWTH 88
- 7.5 OTHER PRODUCT TYPES 89
- 7.5.1 NANOFUIDS 89
- 7.5.2 IONIC LIQUIDS 89

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- 7.5.3 BIO-BASED HTF 90
- 7.5.4 MOLTEN SALTS 90
- 8 HEAT TRANSFER FLUIDS MARKET, BY TEMPERATURE 91
 - 8.1 INTRODUCTION 92
 - 8.2 LOW TEMPERATURE 94
 - 8.2.1 NEED TO ENHANCE EFFICIENCY IN COOLING & CRYOGENICS SYSTEMS TO DRIVE MARKET 94
 - 8.3 MEDIUM TEMPERATURE 94
 - 8.3.1 RISING INDUSTRIALIZATION AND URBANIZATION TO SUPPORT MARKET GROWTH 94
 - 8.4 HIGH TEMPERATURE 95
 - 8.4.1 VITAL ROLE IN ENERGY-INTENSIVE INDUSTRIES TO DRIVE MARKET 95
 - 8.5 ULTRA-HIGH TEMPERATURE 95
 - 8.5.1 USE IN HIGHLY SPECIALIZED APPLICATIONS TO DRIVE ADOPTION 95
- 9 HEAT TRANSFER FLUIDS MARKET, BY END-USE INDUSTRY 97
 - 9.1 INTRODUCTION 98
 - 9.2 CHEMICAL & PETROCHEMICAL 100
 - 9.2.1 IMPLEMENTATION IN CHEMICAL PLANTS OWING TO LOW VOLATILITY PROPERTIES TO PROPEL MARKET 100
 - 9.3 OIL & GAS 101
 - 9.3.1 ADOPTION IN OIL & GAS PLANTS TO REDUCE VIBRATIONS IN TRANSDUCERS, CABLES, AND CONTROL VALVES TO PROPEL MARKET 101
 - 9.4 AUTOMOTIVE 102
 - 9.4.1 USE IN AUTOMOBILE BATTERIES, COMPRESSORS, AND MOTORS FOR EFFICIENT HEAT TRANSFER TO PROPEL MARKET 102
 - 9.5 RENEWABLE ENERGY 102
 - 9.5.1 DEPLOYMENT IN CSP PLANTS DUE TO HIGH OXIDATION RESISTANCE AND THERMAL STABILITY TO PROPEL MARKET 102
 - 9.6 PHARMACEUTICALS 103
 - 9.6.1 IMPLEMENTATION OF FOOD-GRADE HEAT TRANSFER FLUIDS IN PHARMACEUTICAL APPLICATIONS TO PROPEL MARKET 103
 - 9.7 FOOD & BEVERAGES 104
 - 9.7.1 UTILIZATION OF HEAT TRANSFER FLUIDS AS SUBSTITUTE FOR STEAM IN FOOD PROCESSING PLANTS TO PROPEL MARKET 104
 - 9.8 HVAC 105
 - 9.8.1 CORROSION RESISTANCE AND LONG-TERM STABILITY OF HEAT TRANSFER FLUIDS TO INCREASE DEMAND FOR HVAC APPLICATIONS 105
 - 9.9 OTHER END-USE INDUSTRIES 106
 - 9.9.1 ELECTRICAL & ELECTRONICS 106
 - 9.9.2 AEROSPACE 106
- 10 HEAT TRANSFER FLUIDS MARKET, BY REGION 107
 - 10.1 INTRODUCTION 108
 - 10.2 ASIA PACIFIC 110
 - 10.2.1 CHINA 117
 - 10.2.1.1 Thriving chemical and automotive sectors to propel market 117
 - 10.2.2 JAPAN 119
 - 10.2.2.1 Automotive sector to drive demand 119
 - 10.2.3 INDIA 121
 - 10.2.3.1 Government initiatives for renewable energy to support

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market growth	121
10.2.4 SOUTH KOREA	123
10.2.4.1 Thriving automotive & chemical industry to drive market	123
10.2.5 REST OF ASIA PACIFIC	125
10.3 NORTH AMERICA	128
10.3.1 US	134
10.3.1.1 Increasing demand for renewable energy to drive market	134
10.3.2 CANADA	136
10.3.2.1 Focus on renewable energy sector to drive demand	136
10.3.3 MEXICO	138
10.3.3.1 Thriving petrochemical and automotive manufacturing sectors to propel market	138
10.4 EUROPE	140
10.4.1 GERMANY	146
10.4.1.1 Strong manufacturing sector to drive growth	146
10.4.2 ITALY	148
10.4.2.1 Established manufacturing and food & beverages sectors to drive market	148
?	
10.4.3 FRANCE	150
10.4.3.1 Technological & sustainability initiatives to drive market	150
10.4.4 UK	152
10.4.4.1 Focus on renewable energy sector and commitment to circular economy to drive market	152
10.4.5 SPAIN	154
10.4.5.1 Government initiatives for renewable energy sector to drive demand	154
10.4.6 REST OF EUROPE	156
10.5 MIDDLE EAST & AFRICA	159
10.5.1 GCC COUNTRIES	165
10.5.1.1 UAE	166
10.5.1.1.1 Government initiatives and strategic diversification to drive demand	166
10.5.1.2 Saudi Arabia	168
10.5.1.2.1 Government commitment to economic diversification to drive demand	168
10.5.1.3 Rest of GCC countries	170
10.5.2 SOUTH AFRICA	172
10.5.2.1 Burgeoning industrial sector, coupled with government schemes, to drive market	172
10.5.3 REST OF MIDDLE EAST & AFRICA	174
10.6 SOUTH AMERICA	176
10.6.1 ARGENTINA	182
10.6.1.1 Government initiatives to drive demand	182
10.6.2 BRAZIL	184
10.6.2.1 Diverse industrial landscape to drive market	184
10.6.3 REST OF SOUTH AMERICA	186
11 COMPETITIVE LANDSCAPE	189
11.1 INTRODUCTION	189

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11.2	KEY PLAYER STRATEGIES/RIGHT TO WIN	189
11.3	MARKET SHARE ANALYSIS	191
11.4	REVENUE ANALYSIS	194
11.5	BRAND/PRODUCT COMPARATIVE ANALYSIS	195
11.6	COMPANY EVALUATION MATRIX, 2024	195
11.6.1	STARS	195
11.6.2	EMERGING LEADERS	195
11.6.3	PERVASIVE PLAYERS	196
11.6.4	PARTICIPANTS	196
11.6.5	COMPANY FOOTPRINT: KEY PLAYERS, 2024	197
11.6.5.1	Product type footprint	198
11.6.5.2	End-use industry footprint	198
11.6.5.3	Region footprint	199
11.7	COMPANY EVALUATION MATRIX: STARTUPS/SMES, 2024	200
11.7.1	PROGRESSIVE COMPANIES	200
11.7.2	RESPONSIVE COMPANIES	200
11.7.3	DYNAMIC COMPANIES	200
11.7.4	STARTING BLOCKS	200
11.7.5	COMPETITIVE BENCHMARKING: STARTUPS/SMES	202
11.7.5.1	Detailed list of key startups/SMEs	202
11.7.5.2	Competitive benchmarking of key startups/SMEs	203
11.8	COMPANY VALUATION AND FINANCIAL METRICS	204
11.9	COMPETITIVE SCENARIO	206
11.9.1	PRODUCT LAUNCHES	206
11.9.2	DEALS	207
11.9.3	EXPANSIONS	208
12	COMPANY PROFILES	209
12.1	KEY PLAYERS	209
12.1.1	DOW	209
12.1.1.1	Business overview	209
12.1.1.2	Products/Solutions/Services offered	210
12.1.1.3	Recent developments	211
12.1.1.3.1	Deals	211
12.1.1.4	MnM view	211
12.1.1.4.1	Key strengths	211
12.1.1.4.2	Strategic choices	212
12.1.1.4.3	Weaknesses and competitive threats	212
12.1.2	EASTMAN CHEMICAL COMPANY	213
12.1.2.1	Business overview	213
12.1.2.2	Products/Solutions/Services offered	214
12.1.2.3	Recent developments	215
12.1.2.3.1	Product launches	215
12.1.2.3.2	Deals	215
12.1.2.3.3	Expansions	216
12.1.2.4	MnM view	216
12.1.2.4.1	Key strengths	216
12.1.2.4.2	Strategic choices	216

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- 12.1.2.4.3 Weaknesses and competitive threats 216
- 12.1.3 EXXON MOBIL CORPORATION 217
 - 12.1.3.1 Business overview 217
 - 12.1.3.2 Products/Solutions/Services offered 218
 - 12.1.3.3 MnM view 219
 - 12.1.3.3.1 Key strengths 219
 - 12.1.3.3.2 Strategic choices 219
 - 12.1.3.3.3 Weaknesses and competitive threats 219
- 12.1.4 CHEVRON CORPORATION 220
 - 12.1.4.1 Business overview 220
 - 12.1.4.2 Products/Services/Solutions offered 221
 - 12.1.4.3 Recent developments 222
 - 12.1.4.3.1 Deals 222
 - 12.1.4.3.2 Strategic choices 222
 - 12.1.4.3.3 Weaknesses and competitive threats 223
- 12.1.5 HUNTSMAN CORPORATION 224
 - 12.1.5.1 Business overview 224
 - 12.1.5.2 Products/Solutions/Services offered 225
 - 12.1.5.3 MnM view 226
 - 12.1.5.3.1 Key strengths 226
 - 12.1.5.3.2 Strategic choices 226
 - 12.1.5.3.3 Weaknesses and competitive threats 226
- 12.1.6 SHELL PLC 227
 - 12.1.6.1 Business overview 227
 - 12.1.6.2 Products/Solutions/Services offered 228
 - 12.1.6.3 Recent developments 229
 - 12.1.6.3.1 Deals 229
- 12.1.7 LANXESS 230
 - 12.1.7.1 Business overview 230
 - 12.1.7.2 Products/Solutions/Services offered 231
- 12.1.8 CLARIANT 232
 - 12.1.8.1 Business overview 232
 - 12.1.8.2 Products/Services/Solutions offered 233
- 12.1.9 WACKER CHEMIE AG 234
 - 12.1.9.1 Business overview 234
 - 12.1.9.2 Products/Services/Solutions offered 234
- 12.1.10 INDIAN OIL CORPORATION LTD. 235
 - 12.1.10.1 Business overview 235
 - 12.1.10.2 Products/Services/Solutions offered 236
- 12.1.11 SCHULTZ CANADA CHEMICALS LTD. 237
 - 12.1.11.1 Business overview 237
 - 12.1.11.2 Products/Solutions/Services offered 237
- 12.2 OTHER PLAYERS 238
 - 12.2.1 PARATHERM 238
 - 12.2.2 ARKEMA 239

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12.2.3	BASF SE	240
12.2.4	DALIAN RICHFORTUNE CHEMICALS CO., LTD.	241
12.2.5	BRITISH PETROLEUM	242
12.2.6	DUPONT TATE & LYLE BIOPRODUCTS COMPANY LLC	243
12.2.7	DYNALENE	244
12.2.8	HINDUSTAN PETROLEUM CORPORATION LIMITED	245
12.2.9	GLOBAL HEAT TRANSFER LTD.	246
12.2.10	ISEL	247
12.2.11	PARAS LUBRICANTS LTD.	248
12.2.12	PETRO-CANADA LUBRICANTS, INC.	249
12.2.13	PHILLIPS 66 COMPANY	250
12.2.14	RADCO INDUSTRIES, INC.	251
12.2.15	SCHAEFFER MANUFACTURING CO.	252
13	APPENDIX	253
13.1	DISCUSSION GUIDE	253
13.2	KNOWLEDGESTORE: MARKETSandMARKETS' SUBSCRIPTION PORTAL	256
13.3	CUSTOMIZATION OPTIONS	258
13.4	RELATED REPORTS	258
13.5	AUTHOR DETAILS	259

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