



The Global Market for Carbon Black to 2025

TABLE OF CONTENTS

1 EXECUTIVE SUMMARY.....	14
• The current market.....	14
• Innovation in the carbon black market.....	17
• Market growth to 2025.....	18
• Market threat from other materials.....	20
○ Competition from precipitated silica in the tire industry.....	20
○ Competition from nanomaterials.....	20
▪ Graphene.....	20
▪ Nanocellulose.....	20
• Automotive tires the dominant end user market.....	21
○ Competition.....	22
○ Innovation.....	23
○ Green tires.....	23
• Key market trends 2016 to 2017.....	25
○ Green carbon black pigments.....	25
○ Specialty carbon black.....	26
• Global market size and revenues 2014 to 2025.....	28
2 RESEARCH METHODOLOGY.....	30
• 2.1 Scope of the report.....	30
○ 2.1.1 Objective of the report.....	30
○ 2.1.2 Methodology.....	30



The Global Market for Carbon Black to 2025

3	INTRODUCTION.....	32
•	3.1 Carbon black.....	32
○	3.1.1 Properties.....	32
○	3.1.1.1 Particle size distribution.....	33
○	3.1.1.2 Structure-Aggregate size.....	34
○	3.1.1.3 Surface chemistry.....	35
○	3.1.1.4 Agglomerates.....	35
○	3.1.1.5 Colour properties.....	35
○	3.1.1.6 Porosity.....	36
•	3.2 Manufacturing processes.....	37
○	3.2.1 Furnace Black Process.....	37
○	3.2.2 Channel Process.....	37
○	3.2.3 Acetylene Black Process.....	38
○	3.2.4 Lampblack Process.....	39
○	3.2.5 Thermal black process.....	39
○	3.2.6 Recycling of scrapped tires through pyrolysis.....	40
○	3.2.7 Other processes.....	41
4	THE CARBON BLACK INDUSTRY.....	42
•	4.1 The market in 2017.....	42



The Global Market for Carbon Black to 2025

• 4.2 The market in 2025.....	43
• 4.3 Environmental issues.....	44
• 4.4 Specialty carbon black.....	45
• 4.5 Markets for carbon black.....	47
○ 4.5.1 Traditional markets.....	47
○ 4.5.2 Growth markets.....	49
○ 4.5.3 Specialty carbon black markets.....	50
○ 4.5.4 Green carbon black.....	52
○ 4.5.5 Pricing.....	53
○ 4.5.6 Mergers and acquisitions.....	54
• 4.6 Market supply chain.....	55
5 GLOBAL MARKET TRENDS, REVENUES AND FORECAST.....	56
• 5.1 CURRENT MARKET ANALYSIS 2016 TO 2017.....	56
• 5.2 MARKET GROWTH PROSPECTS TO 2025.....	60
• 5.3 MARKET DRIVERS.....	62
• 5.4 MARKET CHALLENGES.....	63
• 5.5 CARBON BLACK MARKET, BY APPLICATIONS.....	64
○ 5.5.1 Tires.....	66
▪ 5.5.1.1 Greening of tires.....	66
▪ 5.5.1.2 Competition from precipitated silica.....	67



The Global Market for Carbon Black to 2025

- 5.5.1.3 Graphene as a potential replacement..... 68
- 5.5.2 Non-Tire Rubber (Industrial rubber)..... 70
- 5.5.3 Plastics..... 73
- 5.5.4 Paints and coatings..... 76
- 5.5.5 Printing inks and toners..... 78
- 5.5.6 Other..... 81
- 5.5.7 High value applications..... 84
 - 5.5.7.1 Conductive materials..... 84
 - 5.5.7.2 Batteries..... 84
 - 5.5.7.3 Insulation..... 85
- 5.6 REGIONAL MARKETS..... 87
 - 5.6.1 Asia-Pacific..... 87
 - 5.6.2 Europe..... 90
 - 5.6.3 North America..... 93
 - 5.6.4 Rest of the world..... 96

6 CARBON BLACK MARKET BUSINESS TRENDS 2016 TO 2017... 98

7 COMPETITIVE ANALYSIS..... 103

- 7.1 Key players..... 103
- 7.2 Market share analysis..... 104



The Global Market for Carbon Black to 2025

8 CARBON BLACK PRODUCER PROFILES.....	105 to 151 (27 company profiles including products, markets and revenues)
9 OTHER PRODUCERS.....	152

TABLES

Table 1 Specialty carbon black grades.....	46
Table 2 Pricing of carbon black.....	53
Table 3 Market supply chain for carbon black.....	55
Table 4 Market drivers for the carbon black industry.....	62
Table 4 Market challenges for the carbon black industry.....	63
Table 5 Carbon black non-tire applications.....	70
Table 6 Grades of carbon black used in the non-tire industrial rubber industry.....	71
Table 7 Carbon black plastics applications.....	73
Table 8 Carbon black paints and coatings applications.....	76
Table 9 Carbon black printing inks and toners applications.....	79

FIGURES

Figure 1 Main global rubber carbon black producers market share.....	16
Figure 2 Main global specialty carbon black producers market share.....	17
Figure 3 Global market for carbon black (metric tons), 2014 to 2025.....	28
Figure 4 Global market for carbon black (Millions \$), 2014 to 2025.....	29
Figure 5 Electron microscope image of carbon black.....	33
Figure 6 Particle size distribution.....	34
Figure 7 Structure- Aggregate Size/Shape Distribution.....	34
Figure 8 Surface Chemistry – Surface Functionality Distribution.....	35
Figure 9 Porosity – Pore Size Distribution.....	36
Figure 10 Furnace black Process.....	37
Figure 11 Channel Black Process.....	38
Figure 12 Acetylene Black Process.....	38



The Global Market for Carbon Black to 2025

Figure 13 Lampblack Process.....	39
Figure 14 Thermal black process.....	40
Figure 15 Recycling via pyrolysis.....	41
Figure 16 Global market in 2016 by applications.....	57
Figure 17 Global Market in 2016 by end user industry.....	58
Figure 18 Global market for carbon black (metric tons), 2014 to 2025.....	60
Figure 19 Global market for carbon black (Millions \$), 2014 to 2025.....	61
Figure 20 Global carbon black market by application in 2016 (Millions \$).....	64
Figure 21 Global carbon black market by application in 2016 (Metric tons \$).....	65
Figure 22 Global carbon black market by application to 2025 (Millions \$).....	65
Figure 23 Global carbon black market by application to 2025 (Metric tons \$).....	65
Figure 24 Global market for carbon black in tires (Millions \$), 2014 to 2025.....	68
Figure 25 Global market for carbon black in tires (Metric tons), 2014 to 2025.....	69
Figure 26 Global market for carbon black in non-tire rubber (Millions \$), 2014 to 2025.....	71
Figure 27 Global market for carbon black in non-tire rubber (Metric tons), 2014 to 2025.....	72
Figure 28 Global market for carbon black in plastics (Millions \$), 2014 to 2025.....	74
Figure 29 Global market for carbon black in tires (Metric tons), 2014 to 2025.....	75
Figure 30 Global market for carbon black in paints and coatings (Millions \$), 2014 to 2025.....	77
Figure 31 Global market for carbon black in paints and coatings (Metric tons), 2014 to 2025.....	77
Figure 32 Global market for carbon black in printing inks and toners (Millions \$), 2014 to 2025.....	79
Figure 33 Global market for carbon black in printing inks and toners (Metric tons), 2014 to 2025.....	80
Figure 34 Global market for carbon black in other markets (Millions \$), 2014 to 2025.....	82
Figure 35 Global market for carbon black in other markets (Metric tons), 2014 to 2025.....	82
Figure 36 Asia-Pacific market for carbon black 2014 to 2025 (Millions \$).....	87
Figure 37 Asia-Pacific market for carbon black 2014 to 2025 (Metric tons).....	88
Figure 38 Asia-Pacific market for carbon black 2014 to 2025 by application (Millions \$).....	88
Figure 39 Asia-Pacific market for carbon black 2014 to 2025 by application (Metric tons).....	89
Figure 40 European market for carbon black 2014 to 2025 (Millions \$).....	90
Figure 41 European market for carbon black 2014 to 2025 (Metric tons).....	91
Figure 42 European market for carbon black 2014 to 2025 by application (Millions \$).....	92
Figure 43 European market for carbon black 2014 to 2025 by application (Metric tons).....	92
Figure 44 North American market for carbon black 2014 to 2025 (Millions \$).....	93
Figure 45 North American market for carbon black 2014 to 2025 (Metric tons).....	94
Figure 46 North America market for carbon black 2014 to 2025 by application (Millions \$).....	94



The Global Market for Carbon Black to 2025

Figure 47 North America market for carbon black 2014 to 2025 by application (Metric tons).....	94
Figure 48 Rest of the world market for carbon black 2014 to 2025 (Millions \$).....	96
Figure 49 Rest of the world market for carbon black 2014 to 2025 (Metric tons).....	97
Figure 50 Carbon black market share, by producer.....	104