

**CeramTec TopCo GmbH
Plochingen**

**Operating and Financial Review
for the period ended
31 March 2019**

As of 8 March 2018, the former owner Cinven closed the acquisition of CeramTec Group by a Consortium led by Funds advised by leading private equity firm BC Partners (“BC Partners”). The Public Sector Pension Investment Board (PSP Investments) and Ontario Teachers’ Pension Plan (Ontario Teachers’) are part of the consortium. The transaction was announced in October 2017. On 22 February 2018, anti-trust authorities approved the takeover. As a result, CeramTec AcquiCo GmbH (in the following “CeramTec AcquiCo”) acquired the shares in CeramTec Holding GmbH (in the following “CeramTec Holding”). CeramTec AcquiCo GmbH is a 100% subsidiary of CeramTec BondCo GmbH (in the following “CeramTec BondCo”), which is itself a 100% subsidiary of CeramTec TopCo. Based on the described acquisition CeramTec TopCo indirectly obtained control of the operating Advanced Ceramics Business as from the acquisition date 8 March 2018. CeramTec TopCo is the ultimate parent and prepares the interim condensed consolidated financial statements.

The purpose of this Operational and Financial Review is to show the development of the financial results of the operating advanced ceramics business for the three months period ended March 31, 2019 in comparison to the three months period ended March 31, 2018. The financial data as of and for the three months period ended March 31, 2019 have been derived from the interim condensed consolidated financial statements. The financial data for the three months period ended March 31, 2018 were prepared as an aggregation of two analysis periods for the two different ultimate parents, to enable a consistent view of the operating entities in the consolidated group: for the period 1 January 2018 to 28 February 2018 for the consolidated group of the former ultimate parent CeramTec Holding GmbH; for the period 1 March 2018 to 31 December 2018 for consolidated group of the current ultimate parent CeramTec TopCo. From a legal point of view the group consisted of the holding companies CeramTec TopCo, CeramTec BondCo and CeramTec AcquiCo without running an operating business in the period 1 January 2018 until acquisition date. Accordingly, prior-year figures in the interim condensed consolidated financial statements reflect operating business only for the period beginning with acquisition date.

The following discussion should be read in conjunction with the information contained in our interim condensed consolidated financial statements for the three months period ended March 31, 2019 including the notes thereto. In the following, we discuss certain financial quantities on an adjusted basis, before giving effect to depreciation and amortization and certain extraordinary, non-recurring items.

The figures in this review are presented in Euro. The amounts are in millions of Euros (EUR m). All amounts are rounded using standard commercial principles. In some cases, adding single values to the total values may therefore lead to differences. Due to rounding differences, figures in tables and cross-references may differ slightly from the actual figures (units of currency, percentages, etc.).

Business Overview

We are a leading global developer, manufacturer and supplier of high performance ceramics (“HPC”) solutions for various end markets including medical, automotive, industrial, consumer and electronics. Our HPC solutions are made of advanced ceramics, which are highly specialized materials with superior biological, chemical, mechanical, thermal, electric, magnetic or optical properties compared to competing products made from metal or polymers (plastics). We have been engaged in the HPC industry for over 100 years, with operational expertise and experience in creating innovative system solutions for longstanding customers at an industrial scale. We currently offer a wide range of HPC solutions including hip joint prostheses components, actuators in engine valves for fuel injection systems, high speed cutting tools and transparent ceramic components for armor applications. The versatility of HPC products and resulting wide- range of applications provides us with a highly diversified end market and customer base.

Our operations can be divided into two businesses, Medical Products and Industrial.

Medical Products

Our Medical Products business focuses on developing and manufacturing ceramic components for hip joint prostheses, such as ball heads and cup inserts used in total hip replacement (“THR”) procedures. In the three months period ended March 31, 2019, it generated 41.2% of our revenue.

Ceramic materials are replacing traditional materials for hip joint prosthetic components such as metal which can trigger negative patient reactions, for example due to allergic reactions resulting from metal sensitivity. Our HPC medical solutions are biologically inert and have high wear resistance and excellent friction behaviour, making them one of the few materials that are durable and stable enough to withstand the corrosive effects of bodily fluids. More than 17 million of our BIOLOX® ceramic components have been implanted in patients globally to date. We estimate that nearly one in two hip joint implant systems sold worldwide includes at least one ceramic component and we estimate our BIOLOX® products represented more than 95% of the ceramic components used for these hip joint implant systems. We believe that our BIOLOX® brand has come to symbolize high quality and innovation and is increasingly preferred by surgeons and other medical professionals. We anticipate that our HPC solutions will be used for various other joint replacements, such as knee and shoulder implants in the future.

Industrial

Our Industrial business develops, manufactures and supplies a broad range of highly specialized, performance critical HPC solutions for customers spanning a wide range of industries including automotive, defense, electronics, industrial machinery and medical equipment. In the three months period ended March 31, 2019, 58.8% of our revenue was generated by our Industrial business.

Our dedicated teams of scientists and engineers collaborate closely with customers to develop tailor made solutions and production processes to fulfill distinct functionality and performance requirements. We believe that we are one of the few advanced ceramics manufacturers with a full range of HPC materials and manufacturing processes with a global reach. Our HPC solutions are often used in performance-critical components. For example, our cutting tools have a longer life and faster cutting speeds compared to non-HPC cutting tools, allowing our customers to save costs and reduce downtime. In automotive engineering, HPC products, including our piezo ceramic components, play a vital role in increasing safety, improving cost-effectiveness and enhancing comfort in vehicles. Our ceramic substrates are used for a variety of purposes in the electronics and telecommunications sector, including measurement and control technology and entertainment electronics. We believe that the specialized, mission critical nature of our solutions, our long standing customer relationships and our highly diversified portfolio of solutions and customer base, reduces the exposure of our Industrial business to any single industry or product.

Results of Operations

The following table sets forth amounts from our income statement along with the percentage change for the three months period ended March 31, 2019 compared to the three months period ended March 31, 2018,

	Three months Ended March 31,		
	2019	2018	Change
	<i>(in EUR m)</i>		<i>(%)</i>
Revenue	165.5	157.0	5.4
Cost of sales	92.0	85.1	8.1
Gross profit	73.4	71.9	2.2
Selling costs	24.8	21.1	17.1
Research and development costs	6.0	5.9	2.0
General administrative costs	6.1	6.9	-12.0
Other income and expenses (-), net.....	-0.8	-10.5	-92.6
Operating income	35.8	27.4	30.7
Interest income and other finance income.....	15.2	0.4	>1k
Interest expenses and other finance costs.....	25.7	42.0	-38.9
Financial result	-10.4	-41.6	-75.0
Profit/(Loss) before income tax	25.4	-14.2	N/A
Income tax expense.....	-11.3	-0.2	>1k
Net profit/(loss) for the period	14.1	-14.4	N/A

Our management considers the results of operations on the adjusted basis, before giving effect to depreciation and amortization as well as certain extraordinary, non-recurring items, with Management adjusted EBITDA as an important indicator of business performance. Management adjusted EBITDA, its main components and its reconciliation to Operating Income as reported are shown in the following table,

	Three months Ended March 31,		
	2019	2018	Change
	<i>(in EUR m)</i>		<i>(%)</i>
Revenue	165.5	157.0	5.4
Cost of sales*	77.3	72.0	7.3
Gross profit*	88.1	85.0	3.7
Selling costs*	11.7	13.1	-10.2
Research and development costs*	5.3	5.4	-1.3
General administrative costs*	4.7	4.8	-2.2
Other income and expenses (-), net*	0.0	-0.2	N/A
Management Adjusted EBITDA	66.4	61.5	8.0
- Exceptional Items	3.6	13.4	-73.4
EBITDA	62.9	48.1	30.6
- Amortization, Depreciation and impairment charges on non-current assets.....	-26.8	-20.7	29.3
Operating income	35.8	27.4	30.7

* Excluding depreciation, amortization and exceptional items

The following table provides a breakdown of the Exceptional Items for the three months ended March 31, 2019, compared to the three months ended March 31, 2018.

	Three months Ended March 31,	
	2019	2018
	<i>(in EUR m)</i>	
Exceptional items	3.6	13.4
Restructuring costs.....	2.0	1.0
Other non-recurring costs.....	1.1	1.8
Foreign exchange conversion effects.....	0.2	-0.1
Acquisition costs	0.3	10.7

Restructuring costs in 2019 mainly comprise severance payments for the reduction of staff at CeramTec GmbH and for restructuring initiatives undertaken in our Mechanical Systems business. Restructuring costs in 2018 mainly comprise severance payments for the reduction of staff at CeramTec GmbH and for management changes at CeramTec Service GmbH.

Other non-recurring costs in 2019 mainly comprise of consulting and litigation expenses while 2018 mainly comprise of a one-time bonus for tariff employees, consulting and litigation expenses and additional contribution to pension fund.

Foreign exchange conversion effects reflect certain impacts related to currency conversions that are accounted for in our Operating income.

Acquisition costs in 2019 and 2018 comprise costs related to the acquisition of CeramTec by BC Partners.

Revenue

The following table provides a breakdown of our revenue for the three months ended March 31, 2019, compared to the three months ended March 31, 2018, by business:

	Three months Ended March 31,		
	2019	2018	Change
	<i>(in EUR m)</i>		<i>(%)</i>
Medical Products	68.1	58.7	16.1
Industrial	97.3	98.3	-1.0
Total revenue	165.5	157.0	5.4

Total revenue for the three months ended March 31, 2019 was €165.5 million, an increase of €8.5 million or 5.4%, as compared to €157.0 million for the three months ended March 31, 2018.

Revenue in our Medical Products business was €68.1 million for the three months ended March 31, 2019, an increase of €9.4 million or 16.1%, as compared to €58.7 million for the three months ended March 31, 2018. This increase was mainly due to growth in the number of components sold.

Revenue in our Industrial business was €97.3 million for the three months ended March 31, 2019, a decrease of €-1.0 million or -1.0%, as compared to €98.3 million for the three months ended March 31, 2018. This decrease was mainly due to softer demand in automotive, and construction markets, partly offset by strong textile and catalyst carrier demand with stable electronics market. As per March 1, 2019, we have changed the commercial set-up of our Industrial business, with sales teams in Europe now being organized along end industry verticals: Mobility, Electronics and Industrial applications.

The following table provides a breakdown of our revenue for the three months ended March 31, 2019, compared to the three months ended March 31, 2018, by region.

	Three months Ended March 31		
	2019	2018	Change
	<i>(in EUR m)</i>		<i>(%)</i>
Europe (excluding Germany).....	73.6	67.3	9.4
Germany	38.8	41.2	-5.9
North America	24.5	22.3	9.9
Asia	24.2	21.5	12.7
Other regions.....	4.4	4.7	-7.3
Total net sales	165.5	157.0	5.4

Cost of Sales and Gross Profit

The following table provides a breakdown of our cost of sales for the three months ended March 31, 2019, compared to the three months ended March 31, 2018,

	Three months Ended March 31			
	2019		2018	
	<i>(in EUR m)</i>	<i>(% of net sales)</i>	<i>(in EUR m)</i>	<i>(% of net sales)</i>
Material and packing costs	33.4	20.2	29.0	18.5
Personnel expenses	34.0	20.5	32.5	20.7
Amortization and depreciation	14.0	8.4	12.1	7.7
Other costs of sales	10.6	6.4	11.5	7.3
Cost of sales	92.0	55.6	85.1	54.2

Cost of sales was €92.0 million (55.6% of revenue) for the three months ended March 31, 2019, an increase of €6.9 million or 8.1%, compared to €85.1 million (54.2% of revenue) for the three months ended March 31, 2018. Excluding amortization and depreciation and non-recurring items, our adjusted cost of sales increased by 7.3% from €72.0 million or 45.9% of revenue for the three months ended March 31, 2018 to €77.3 million or 46.7% of revenue for the three months ended March 31, 2019.

Gross profit was €73.4 million for the three months ended March 31, 2019, an increase of €1.5 million or 2.2%, as compared to €71.9 million for the three months ended March 31, 2018.

Adjusted gross profit margin was 53.3% for the three months ended March 31, 2019 compared to 54.1% for the three months ended March 31, 2018, mainly coming from a softer product mix within the Industrial business.

Selling Cost

Selling costs were €24.8 million (15.0% of revenue) for the three months ended March 31, 2019, an increase of €3.7 million or 17.1%, as compared to €21.1 million (13.5% of revenue) for the three months ended March 31, 2018. Excluding amortization and depreciation and non-recurring items, our adjusted selling costs decreased by €1.4 million to €11.7 million or 7.1% of revenue for the three months ended March 31, 2019, compared to €13.1 million or 8.3% of revenue for the three months ended March 31, 2018.

Research and Development Cost

Research and development costs were €6.0 million (3.6% of revenue) for the three months ended March 31, 2019, an increase of €0.1 million or 2.0%, as compared to €5.9 million (3.8% of revenue) for the three months ended March 31, 2018. Excluding amortization and depreciation and non-recurring items, our adjusted research and development costs decreased to €5.3 million or 3.2% of revenue for the three months ended March 31, 2019 from €5.4 million or 3.4% of revenue for the three months ended March 31, 2018.

General Administrative Cost

General administrative costs were €6.1 million (3.7% of revenue) for the three months ended March 31, 2019, a decrease of €0.8 million or 12.0%, as compared to €6.9 million (4.4% of revenue) for the three months ended March 31, 2018. Excluding amortization and depreciation and non-recurring items, our adjusted general administrative costs decreased to €4.7 million or 2.8% of revenue for the three months ended March 31, 2019 from €4.8 million or 3.0% of revenue for the three months ended March 31, 2018.

Other Income and Expenses

Other expenses were €0.8 million for the three months ended March 31, 2019, a decrease of €9.7 million compared to other expenses of €10.5 million for the three months ended March 31, 2018. This decrease was mainly due to not repeating acquisition costs for the acquisition of CeramTec by BC Partners in 2018. Excluding non-recurring items, our adjusted other expenses, net, were €0.0 million for the three months ended March 31, 2019 merely constant with adjusted other expenses, net of €0.2 million for the three months ended March 31, 2018.

Interest Income and Other Financial Income

Interest income and other finance income was €15.2 million for the three months ended March 31, 2019, an increase of €14.8 million as compared to €0.4 million for the three months ended March 31,

2018. This increase was mainly due to a gain resulting from the fair value measurement of derivatives and foreign currency effects compared to the three months ended March 31, 2018

Interest Expenses and Other Finance Costs

Interest expenses and other finance costs were €25.7 million for the three months ended March 31, 2019, a decrease of €16.3 million as compared to €42.0 million for the three months ended March 31, 2018. This decrease was mainly due to the lack of losses resulting from the fair value measurement of derivatives. The financial expenses of €25.7 million include €13.9 million of interest expenses from syndicated loan, revolving credit line and bond, €9.6 million of interest expenses from a shareholder loan, €1.2 million of expenses from the effective interest rate method and €1.0 million of other interest expenses.

Income Tax Expenses

Income tax expenses were €11.3 million for the three months ended March 31, 2019, an increase of €11.1 million as compared to €0.2 million expenses for the three months ended March 31, 2018. This increase was mainly due to higher deferred tax expenses resulting from the valuation of derivatives and lower deferred tax income from the recognition of deferred tax assets on tax loss carry forwards compared to Q1 2018

Net Profit / Loss

As a result of the developments described above, net profit for the period was €14.1 million for the three months ended March 31, 2019, compared to a net loss of €14.4 million for the three months ended March 31, 2018.

Financial Condition, Liquidity and Capital Resources

As of March 31, 2019, the gross financial debt, the cash balance as well as the undrawn Revolving Credit Facility were as follows:

	As of March 31, 2019 <i>(in EUR m)</i>
Gross financial debt (without accrued transaction costs).....	1,487.1
<i>thereof bond</i>	401.0
<i>thereof term loans</i>	1,080.4
<i>thereof revolving credit facility</i>	0.0
<i>thereof accrued interest</i>	5.7
Cash.....	30.7
Net debt	1,456.4
Undrawn Revolving Credit Facility.....	75.0

The management adjusted EBITDA for the last twelve months ended March 31, 2019 was €231.2 million leading to the net debt leverage ratio of 6.3x, compared to the management adjusted EBITDA for the last twelve months ended March 31, 2018 of €215.6 million and the net debt leverage ratio of 6.9x, respectively. The business has continually reduced the net debt leverage ratio over the past quarters.

The company currently holds €5 million nominal value of own bonds, which were purchased in the fourth quarter of 2018.

Cash Flow Statement

The following table shows the cash flow statement for the three months period ended March 31, 2019 and 2018.

	Three months ended March 31, 2019	Three months ended March 31, 2018
	<i>(in € million)</i>	<i>(in € million)</i>
Net profit / (loss) for the period	14.1	-14.4
Income tax expenses / benefit(-)	11.3	0.2
Interest result	25.0	24.0
Amortization, depreciation and impairment changes of non-current assets.....	27.0	20.7
Gain (-) / Loss on disposal of fixed assets.....	0.0	-0.0
Increase / decrease (-) in provisions (excluding deferred taxes)	1.4	1.4
Income tax refund / (payment)	-5.0	-5.1
Other non-cash expenses / income (-), net.....	-15.1	16.4
Increase (-) / decrease in inventories	-0.7	-1.0
Increase (-) / decrease in trade receivables	-19.5	-8.6
Increase (-) / decrease in other receivables and (financial) assets.....	-0.8	31.0
Increase / decrease (-) in trade payables.....	-6.4	-41.1
Increase / decrease (-) in other (financial) liabilities	7.7	5.6
Cash flow from operating activities	39.1	29.0
Cash received from disposals of property, plant and equipment	0.0	0.0
Cash paid (-) for investments in property, plant and equipment.....	-9.5	-7.4
Cash received from grants	0.0	0.0
Cash paid (-) for investments in intangible assets.....	-0.1	-0.2
Cash paid (-) for the acquisition of entities	0.0	-2,479.9
Cash flow from investing activities	-9.6	-2,487.4
Cash received from contribution to capital reserve	0.0	500.4
Cash received from issuance of bond.....	0.0	393.5
Cash received from / repayment (-) of syndicated loan	0.0	1,075.8
Interest paid (-)	-19.4	19.7
Cash received from drawing / repayment (-) of revolver loan	0.0	2.6
Cash received from / repayment (-) of shareholder loan.....	0.0	523.8
Cash paid for capitalized leases (right-of-use assets)	-0.8	0.0
Cash flow from financing activities.....	-20.2	2,476.4
Change in cash and cash equivalents.....	9.3	18.1
Net foreign exchange difference	0.4	0.0
Cash and cash equivalents at the beginning of the period.....	21.1	14.8
Cash and cash equivalents at the end of the period.....	30.7	32.8

Cash flows from operating activities increased from €29.0 million for the three months ended March 31, 2018 to €39.1 million for the three months ended March 31, 2019. The increase is driven by a higher overall profit and less outflow for A/P thanks to not repeating payments for transaction partly offset by increased A/R from higher sales and a less favourable customer mix in terms of payment.

Cash flows used in investing activities for property, plant and equipment increased from €7.6 million for the three months ended March 31, 2018 to €9.6 million for the three months ended March 31, 2019. The higher investment spending in the three months ended March 31, 2019 was mainly driven by phasing of growth projects reflecting the positive market conditions. Investing activities in the period ending 31st of March 2018 include cash paid in connection with the acquisition by BC Partners of €2,480 million comprising of €1,603 million purchase price to the seller and €877 million repayment of debt.

Cash flows used in financing activities decreased from an inflow of €2,476 million for the three months ended March 31, 2018 to an outflow of €20.2 million for the three months ended March 31, 2019, mainly due to new financing structure comprising inflows from loans, bond and contribution to capital reserve in 2018.

Capital Expenditures

The following table provides an overview of our capital expenditures (w/o right-of-use assets) for the three months ended March 31, 2019 and 2018:

	Three months ended March 31, 2019	Three months ended March 31, 2018
Additions to intangible assets.....	0.1	0.1
Additions to property, plant and equipment	5.9	4.8
Capital expenditures (gross)	6.0	4.9
Government grants.....	0.0	0.0
Capital expenditures (net).....	6.0	4.9
Additions from business acquisitions	0.0	0.0

In general, our capital investment is split evenly between maintenance and growth projects. Cash outflow for the three months ended March 31, 2019 for intangible assets amounts to €0.1 million and for tangible assets amounts to €9.5 million.

Employees

As of March 31, 2019, the CeramTec Group employed a workforce of 3,651 people, an increase of 2.9% compared to the previous year.

Headcount	March 31, 2019	March 31, 2018
Employees by region		
Europe (w/o Germany)	648	656
Germany.....	2.161	2.056
North and South America.....	350	327
Asia	492	507
	3.651	3.548
Employees by function		
Manufacturing.....	2.869	2.784
Sales.....	331	326
Research and development.....	194	185
Administration	257	253
	3.651	3.548

Recent Developments

There have been no recent developments.

Plochingen, 24 May 2019

CeramTec TopCo GmbH

The management

Dr. Hadi Saleh