Morgan Technical Ceramics Limited

Directors' report and financial statements

Registered number 00262938

For the

year ended 31 December 2018

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Contents

Strategic report	1
Directors' report	2
Statement of Directors' responsibilities in respect of the Strategic report, the Directors' report and the financial statements	3
Independent auditor's report to the member of Morgan Technical Ceramics Limited	4-5
Profit and loss account and other comprehensive income	6
Balance sheet	7
Statement of Changes in Equity	8
Notes	9-36

Strategic report

Overview

As shown in the Company's profit and loss account on page 6, the Company's continuing operations turnover has increased by 10.1% over the prior year and continuing operations profit before tax has increased by £5,570,000. This is mainly due to the increased revenue in the Seals & Bearings business, along with a pension scheme past service credit.

The balance sheet on page 7 of the financial statements shows the Company's financial position at the year end.

On 1st January 2017, Morgan Technical Ceramics Limited purchased the trade and certain assets and liabilities of the Seals & Bearings business from Morgan Electrical Carbon Limited. This transfer was to facilitate the cooperation between the two sites, Stourport and Redditch, arising from the growing overlap in products and customers. The transfer was funded by a short-term interest-bearing loan from Morgan Electrical Carbon Limited.

On 22nd February 2017, it was announced that the assets of Morgan Technical Ceramics Ltd's UK Electro-Ceramics business (based in Ruabon & Southampton) would be sold to CeramTec UK Ltd. The disposal date was 3rd April 2017. The divestment is in line with Morgan Advanced Materials plc's strategy to simplify its portfolio and focus on global technology businesses of scale.

Strategy

The Company invests in research and development activities appropriate to the nature and size of its operations with the aim of supporting the future development of the Company, in the medium to long-term. This research and development activity has resulted in a number of updates to existing products.

The Company is a member of the Morgan Advanced Materials plc group (Morgan Group), which, from March 2016, managed its operations on a global business unit basis. For this reason, the Company's Directors believe that further key performance indicators for the Company are not necessary or appropriate for an understanding of the development, performance or position of the business. The performance of the Seals & Bearings, Specialty Ceramics & Advanced Ceramic & Metals global business units of Morgan Group, which include the Company, is discussed in Morgan Group's Annual Report which does not form part of this Report.

Principal risks and uncertainties

Competitive pressure in low cost countries is a continuing risk for the Company, which could result in it losing sales to its key competitors. To manage this risk, the Company strives to provide added-value products and services to its customers, respond promptly in the supply of products and services and in the handling of customer queries and maintain strong relationships with customers.

The Company sells products into international markets and it is therefore exposed to currency movements on such sales. Where appropriate, the Company manages this risk in accordance with Morgan Group Treasury policies.

The Company's businesses may be affected by fluctuations in the price and supply of key raw materials, although purchasing policies and practices seek to mitigate, where practicable, such risks.

The Company have reviewed the potential impact of the UK's exit from the EU, particularly in regard to material supplies and the movement of labour. It has taken action accordingly to manage the risk, including increasing levels of raw material inventory to service orders, should delays occur and ensure labour levels are maintained.

The Company is a member of Morgan Group's multi-employer UK defined benefit pension plan which is currently in deficit. The funding level of this pension plan is subject to adverse change resulting from movements in the actuarial assumptions underlying the calculation of plan liabilities, including decreasing discount rates and increasing longevity of plan members, as well as declines in the market value of plan investments. Significant adverse changes in the actuarial assumptions underlying the UK plan valuation and the Company's share of any deficit-reduction contributions made into the plan could materially impact the Company's trading results.

The Group risks to which Morgan Group is exposed are discussed in Morgan Group's Annual Report which does not form part of this report.

Environment

The Company recognises the importance of its environmental responsibilities, monitors its impact on the environment and designs and implements policies to mitigate any adverse impact that might be caused by its activities. The Company operates in accordance with Morgan Group policies, as noted in Morgan Group's Annual Report, which does not form part of this Report. Initiatives aimed at minimising the Company's impact on the environment include safe disposal of manufacturing waste, recycling and reducing energy consumption.

By order of the board

Maulus

M.N.C.Parker Director Morgan Drive

Stourport-on-Severn Worcestershire DY13 8DW

18/06/2019

Directors' report

The Directors present their annual report and audited financial statements for the year ended 31 December 2018.

Principal activities

The Company's principal activities are the manufacture and sale of specialist ceramic components for a variety of demanding markets including medical, defence, electronics and fluid handling. Around 68% of production is exported from the UK to customers in Europe, the Americas and the Far East. During the prior year, the trade and assets of Morgan Technical Ceramics Ltd's UK Electro-Ceramics business (based in Ruabon & Southampton) were sold to CeramTec UK Ltd on 3rd April 2017, as detailed in the Strategic Report.

Dividend

No dividend has been paid in the year (2017: nil).

Directors

The Directors who held office during the year were as follows:

M.N.C. Parker

M.G. Thomas

G.M. Simpson (resigned 01 May 2018)

Morgan Group purchases directors' and officers' insurance cover on behalf of all Group companies in the UK.

Employees

Details of the number of employees and related costs can be found in note 6 to the financial statements.

Applications for employment by disabled persons are considered fully, bearing in mind the aptitudes of the applicant concerned. In the event of members of staff becoming disabled, every effort is made to ensure that their employment with the Company continues and that appropriate training is arranged. It is the policy of the Company that the training, career development and promotion of disabled persons should, as far as possible, be identical with that of other employees.

The Company participates in Morgan Group's policies and practices to keep employees informed on matters relevant to them as employees through appropriate means, such as employee meetings and newsletters.

Political and charitable contributions

During the course of the year, the Company made charitable donations amounting to £967 (2017: £20) and no political donations (2017: £nil).

Research and development

The Company will continue its programme of research and development within the sphere of the manufacturing and applications of technical ceramics. Expenditure incurred in the year was £3,098,000 (2017: £3,012,000).

Disclosure of information to auditor

The Directors who held office at the date of approval of this Directors' report confirm that, so far as they are each aware, there is no relevant audit information of which the Company's auditor is unaware and each director has taken all the steps that he ought to have taken as a director to make himself aware of any relevant audit information and to establish that the Company's auditor is aware of that information.

Other Information

An indication of likely future developments in the business and particulars of significant events which have occurred since the end of the financial year have been included in the Strategic Report on page 1.

Audito

In accordance with Section 487 of the Companies Act 2006, the auditor will be deemed to be re-appointed and KPMG LLP will therefore continue in office.

By order of the board

M.N.C. Parker Director Morgan Drive Stourport-on-Severn Worcestershire DY13 8DW 18/06/2019

Statement of Directors' responsibilities in respect of the Strategic report, the Directors' report and the financial statements

The directors are responsible for preparing the Strategic report, the Directors' report and the financial statements in accordance with applicable law and regulations.

Company law requires the directors to prepare financial statements for each financial year. Under that law they have elected to prepare the financial statements in accordance with UK accounting standards and applicable law (UK Generally Accepted Accounting Practice), including FRS 101 Reduced Disclosure Framework.

Under company law the directors must not approve the financial statements unless they are satisfied that they give a true and fair view of the state of affairs of the company and of the profit or loss of the company for that period. In preparing these financial statements, the directors are required to:

- select suitable accounting policies and then apply them consistently;
- make judgements and estimates that are reasonable and prudent;
- state whether applicable UK accounting standards have been followed, subject to any material departures disclosed and explained in the financial statements;
- assess the company's ability to continue as a going concern, disclosing, as applicable, matters related to going concern; and
- use the going concern basis of accounting unless they either intend to liquidate the company or to cease operations, or have no realistic alternative but to do so.

The directors are responsible for keeping adequate accounting records that are sufficient to show and explain the company's transactions and disclose with reasonable accuracy at any time the financial position of the company and enable them to ensure that the financial statements comply with the Companies Act 2006. They are responsible for such internal control as they determine is necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error, and have general responsibility for taking such steps as are reasonably open to them to safeguard the assets of the company and to prevent and detect fraud and other irregularities.

Independent auditor's report to the member of Morgan Technical Ceramics Limited

Opinion

We have audited the financial statements of Morgan Technical Ceramics Limited ("the company") for the year ended 31 December 2018 which comprise the Profit and loss account and other comprehensive income, Balance sheet, Statement of Changes in Equity and related notes, including the accounting policies in note 1.

In our opinion the financial statements:

- give a true and fair view of the state of the company's affairs as at 31 December 2018 and of its profit for the year then ended;
- have been properly prepared in accordance with UK accounting standards, including FRS 101 Reduced Disclosure Framework; and
- have been prepared in accordance with the requirements of the Companies Act 2006.

Basis for opinion

We conducted our audit in accordance with International Standards on Auditing (UK) ("ISAs (UK)") and applicable law. Our responsibilities are described below. We have fulfilled our ethical responsibilities under, and are independent of the company in accordance with, UK ethical requirements including the FRC Ethical Standard. We believe that the audit evidence we have obtained is a sufficient and appropriate basis for our opinion.

Other matter

The impact of uncertainties due to the UK exiting the European Union on our audit

Uncertainties related to the effects of Brexit are relevant to understanding our audit of the financial statements. All audits assess and challenge the reasonableness of estimates made by the directors and the appropriateness of the going concern basis of preparation of the financial statements. All of these depend on assessments of the future economic environment and the company's future prospects and performance.

Brexit is one of the most significant economic events for the UK, and at the date of this report its effects are subject to unprecedented levels of uncertainty of outcomes, with the full range of possible effects unknown. We applied a standardised firm-wide approach in response to that uncertainty when assessing the company's future prospects and performance. However, no audit should be expected to predict the unknowable factors or all possible future implications for a company and this is particularly the case in relation to Brexit.

Going concern

The directors have prepared the financial statements on the going concern basis as they do not intend to liquidate the company or to cease its operations, and as they have concluded that the company's financial position means that this is realistic. They have also concluded that there are no material uncertainties that could have cast significant doubt over its ability to continue as a going concern for at least a year from the date of approval of the financial statements ("the going concern period").

We are required to report to you if we have concluded that the use of the going concern basis of accounting is inappropriate or there is an undisclosed material uncertainty that may cast significant doubt over the use of that basis for a period of at least a year from the date of approval of the financial statements. In our evaluation of the directors' conclusions, we considered the inherent risks to the company's business model, including the impact of Brexit, and analysed how those risks might affect the company's financial resources or ability to continue operations over the going concern period. We have nothing to report in these respects.

However, as we cannot predict all future events or conditions and as subsequent events may result in outcomes that are inconsistent with judgements that were reasonable at the time they were made, the absence of reference to a material uncertainty in this auditor's report is not a guarantee that the company will continue in operation.

Strategic report and directors' report

The directors are responsible for the strategic report and the directors' report. Our opinion on the financial statements does not cover those reports and we do not express an audit opinion thereon.

Our responsibility is to read the strategic report and the directors' report and, in doing so, consider whether, based on our financial statements audit work, the information therein is materially misstated or inconsistent with the financial statements or our audit knowledge. Based solely on that work:

- we have not identified material misstatements in the strategic report and the directors' report;
- in our opinion the information given in those reports for the financial year is consistent with the financial statements; and
- in our opinion those reports have been prepared in accordance with the Companies Act 2006.

Matters on which we are required to report by exception

Under the Companies Act 2006 we are required to report to you if, in our opinion:

- adequate accounting records have not been kept, or returns adequate for our audit have not been received from branches not visited by
 us; or
- the financial statements are not in agreement with the accounting records and returns; or
- · certain disclosures of directors' remuneration specified by law are not made; or
- · we have not received all the information and explanations we require for our audit.

We have nothing to report in these respects.

Directors' responsibilities

As explained more fully in their statement set out on page 3, the directors are responsible for: the preparation of the financial statements and for being satisfied that they give a true and fair view; such internal control as they determine is necessary to enable the preparation of financial statements that are free from material missiatement, whether due to fraud or error; assessing the company's ability to continue as a going concern, disclosing, as applicable, matters related to going concern; and using the going concern basis of accounting unless they either intend to liquidate the company or to cease operations, or have no realistic alternative but to do so.

Auditor's responsibilities

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue our opinion in an auditor's report. Reasonable assurance is a high level of assurance, but does not guarantee that an audit conducted in accordance with ISAs (UK) will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of the financial statements.

A fuller description of our responsibilities is provided on the FRC's website at www.frc.org.uk/auditorsresponsibilities.

The purpose of our audit work and to whom we owe our responsibilities

This report is made solely to the company's members, as a body, in accordance with Chapter 3 of Part 16 of the Companies Act 2006. Our audit work has been undertaken so that we might state to the company's members those matters we are required to state to them in an auditor's report and for no other purpose. To the fullest extent permitted by law, we do not accept or assume responsibility to anyone other than the company and the company's members, as a body, for our audit work, for this report, or for the opinions we have formed.

Nicola Davies (Senior Statutory Auditor)

for and on behalf of KPMG LLP, Statutory Auditor

Chartered Accountants

KPMG LLP

One Snowhill

Snow Hill Queensway

Birmingham

B4 6GH

18/06/2019

Profit and loss account and other comprehensive income for the year ended 31 December 2018

for the year ended 31 December 2018	Note		2018			2017	
		Continuing £000	Discontinued £000	Total £000	Continuing £000	Discontinued £000	Total £000
Turnover	2	44,402	-	44,402	40,343	5,534	45,877
Change in stocks of finished goods and work in progress		520	-	520	32	202	234
Raw materials and consumables		(9,408)		(9,408)	(7,630)		(8,886)
Other external expenses		(4,490)		(4,490)	(4,610)	• •	(5,310)
Staff costs	6	(19,699)	-	(19,699)	(18,283)	(1,790)	(20,073)
Pension Scheme Past Service Credit	7	2,000	-	2,000	-	-	-
Depreciation and other amounts written off tangible and intangible fixed	3	(1,739)	-	(1,739)	(1,653)	(183)	(1,836)
Reorganisation expenses	8	-	-	-	-	(217)	(217)
Other operating expenses		(4,759)	-	(4,759)	(6,186)	(583)	(6,769)
		(37,575)	-	(37,575)	(38,330)	(4,527)	(42,857)
Operating profit		6,827	-	6,827	2,013	1,007	3,020
Profit on disposal of business	4	-	-		-	39,234	39,234
Interest receivable and similar income	9	2,059	-	2,059	1,403	1	1,404
Interest payable and similar expense	10	(1,200)	-	(1,200)	(1,300)	-	(1,300)
Profit before taxation		7,686	•	7,686	2,116	40,242	42,358
Tax (excluding tax on disposal of discontinued operation)	11	(1,050)	-	(1,050)	(753)	(359)	(1,112)
Tax on disposal of discontinued operation			·		-	·	
Tax on Profit				(1,050)			(1,112)
Profit for the financial year			=	6,636		_	41,246
Other comprehensive income							
Items that are or may be recycled subsequently to profit or loss:							
Net change in fair value of cash flow hedges recycled to profit or loss				(503)			3,285
Items that will not be reclassified subsequently to profit or loss:				• • • •			
Remeasurement gain/(loss) on defined benefit plans			_	3,800		_	1,800
Other comprehensive income for the year, net of income tax			, –	3,297		-	5,085
Total comprehensive income for the year			_	9,933		_	46,331

The notes on pages 9 to 36 form part of these financial statements.

Balance sheet at 31 December 2018

	Note		2018		2017
		£000	£000	£000	£000
Fixed assets					
Intangible assets Tangible assets	12 13		50 13,850		109 12,878
langible assets	13		13,630		12,070
			13,900	_	12,987
Current assets					
Stocks	14	6,299		5,398	
Debtors (including £56,761,000 (2017: £56,759,000) due after more than one year) Cash at bank and in hand	15	63,676 9,159		65,168 8,279	
	-	79,134	_	78,845	
Creditors: amounts falling due within one year	16	(10,585)		(11,439)	
Net current assets		_	68,549	_	67,406
Total assets less current liabilities		_	82,449		80,393
Provisions for liabilities					
Pension Liability	20		(41,768)		(49,645)
Net assets		_	40,681	-	30,748
		_		-	
Capital and reserves					
Called up share capital	17		27,500		27,500
Revaluation reserve			687		687
Other reserves			1,719		2,222
Profit and loss account			10,775		339
Shareholder's funds		=	40,681	-	30,748

The notes on pages 9 to 36 form part of these financial statements.

These financial statements were approved by the board of directors on 18th June 2019 and were signed on its behalf by:

M.N.C. Parker Director

18/06/2019

Statement of Changes in Equity for the year ended 31 December 2018

	Called up share capital	Revaluation reserve	Other reserves	Profit and loss account	Total equity
	share capital	reserve	reserves	ioss account	Total equity
Balance at 1 January 2017	27,500	687	(1,063)	(42,707)	(15,583)
Total comprehensive income for the year					
Profit for the year	-	-	-	41,246	41,246
Other comprehensive income	-	-	3,285	1,800	5,085
Total comprehensive income for the year	•	-	3,285	43,046	46,331
Balance at 31 December 2017	27,500	687	2,222	339	30,748
Balance at 1 January 2018	27,500	687	2,222	339	30,748
Total comprehensive income for the year					1
Profit for the year	•	-	-	6,636	6,636
Other comprehensive income	•	-	(503)	3,800	3,297
Total comprehensive income for the year	-	-	(503)	10,436	9,933
Balance at 31 December 2018	27,500	687	1,719	10,775	40,681

The notes on pages 9 to 36 form part of these financial statements.

Notes

(forming part of the financial statements)

1 Accounting policies

Morgan Technical Ceramics Limited is a private company incorporated and domiciled in the UK.

These financial statements were prepared in accordance with Financial Reporting Standard 101 Reduced Disclosure Framework ('FRS 101').

In preparing these financial statements, the Company applies the recognition, measurement and disclosure requirements of International Financial Reporting Standards as adopted by the EU ('Adopted IFRSs'), but makes amendments where necessary in order to comply with Companies Act 2006 and has set out below where advantage of the FRS 101 disclosure exemptions has been taken.

The Company's ultimate parent undertaking, Morgan Advanced Materials plc, includes the Company in its consolidated financial statements. The consolidated financial statements of Morgan Advanced Materials plc are prepared in accordance with International Financial Reporting Standards and are available to the public and may be obtained from Quadrant, 55-57 High Street, Windsor, Berkshire, SL4 1LP.

In 2018 the following amendments had been endorsed by the EU, became effective and therefore were adopted by the company:

- IFRS 15 Revenue from Contract with Customers
- IFRS 9 Financial Instruments

The above standards have not had a material impact on the Financial Statements.

In these financial statements, the company has applied the exemptions available under FRS 101 in respect of the following disclosures:

- · a Cash Flow Statement and related notes;
- · comparative period reconciliations for share capital, tangible fixed assets and intangible assets;
- · the effects of new but not yet effective IFRSs;
- disclosures in respect of the compensation of Key Management Personnel and the services provided to them;
- disclosures in respect of capital management.

As the consolidated financial statements of Morgan Advanced Materials plc include the equivalent disclosures, the Company has also taken the exemptions under FRS 101 available in respect of the following disclosures:

- IFRS 2 Share Based Payments in respect of group settled share based payments;
- Disclosures required by IFRS 5 Non-current Assets Held for Sale and Discontinued Operations in respect of the cash flows of discontinued operations;
- Certain disclosures required by IFRS 3 Business Combinations in respect of business combinations undertaken by the Company; and
- Certain disclosures required by IFRS 13 Fair Value Measurement and the disclosures required by IFRS 7 Financial Instrument Disclosures.

The accounting policies set out below have, unless otherwise stated, been applied consistently to the period presented in these financial statements.

The financial statements are prepared on the historical cost basis except that the following assets and liabilities are stated at their fair value - derivative financial instruments classified as fair value through the profit and loss account.

Going concern

The Company's forecasts and projections, taking account of reasonably possible changes in trading performance, show that the Company is able to operate within the level of its available facilities. The Directors have a reasonable expectation that the Company has adequate resources to continue in operational existence for the foreseeable future. Accordingly, they continue to adopt the going concern basis in preparing the financial statements for the period ended 31 December 2018

Goodwill

Goodwill is stated at cost less any accumulated impairment losses and amortisation made under UK GAAP and was fully amortised prior to conversion to FRS101. Goodwill is allocated to cash-generating units. Any future goodwill would not be amortised but tested annually for impairment.

Other intangible assets

Technology related operating intangible fixed assets purchased by the Company are amortised to nil by equal annual instalments over their useful economic lives of 10 years.

1 Accounting policies (continued)

Tangible fixed assets and depreciation

Tangible fixed assets are stated at cost less accumulated depreciation and accumulated impairment losses. Depreciation is charged to the profit and loss account on a straight line basis over the estimated useful lives of each part of an item of tangible fixed assets. Freehold land is not depreciated. The estimated useful lives are as follows:

 Freehold buildings
 - 2% per annum

 Plant and machinery
 - 5% and 10%

 Computer equipment
 - 20% and 33%

 Fixtures and fittings
 - 5% and 10%

Foreign currencies

Transactions in foreign currencies are recorded using the rate of exchange ruling at the date of the transaction. Monetary assets and liabilities denominated in foreign currencies are translated using the contracted rate or the rate of exchange ruling at the balance sheet date and the gains or losses on translation are included in the profit and loss account. The Company's functional currency is the British pound.

Related Party Transactions

As the Company is a wholly-owned subsidiary of Morgan Europe Holding Limited, part of Morgan Advanced Materials plc, the Company has taken advantage of the exemption contained under paragraph 8(k) of FRS101 and has therefore not disclosed transactions or balances with wholly-owned subsidiaries which form part of the Group.

Derivative financial instruments and hedging

Derivative financial instruments

Derivative financial instruments are recognised at fair value. The gain or loss on remeasurement to fair value is recognised immediately in profit or loss. However, where derivatives qualify for hedge accounting, recognition of any resultant gain or loss depends on the nature of the item being hedged (see below).

Cash flow hedges

Where a derivative financial instrument is designated as a hedge of the variability in cash flows of a recognised asset or liability, or a highly probable forecast transaction, the effective part of any gain or loss on the derivative financial instrument is recognised directly in the hedging reserve. Any ineffective portion of the hedge is recognised immediately in the income statement.

Fair value hedges

Where a derivative financial instrument is designated as a hedge of the variability in fair value of a recognised asset or liability or an unrecognised firm commitment, all changes in the fair value of the derivative are recognised immediately in the income statement. The carrying value of the hedged item is adjusted by the change in fair value that is attributable to the risk being hedged (even if it is normally carried at cost or amortised cost) and any gains or losses on remeasurement are recognised immediately in the income statement (even if those gains would normally be recognised directly in reserves).

Non-derivative financial instruments

Non-derivative financial instruments comprise trade and other debtors, cash and cash equivalents, loans and borrowings, and trade and other creditors. Payments made under operating leases are recognised in the income statement on a straight-line basis over the term of the lease. Lease incentives received are recognised in the income statement as an integral part of the total lease expense.

Trade and other debtors

Trade and other debtors are recognised initially at fair value. Subsequent to initial recognition they are measured at amortised cost using the effective interest method, less any impairment losses.

Trade and other creditors

Trade and other creditors are recognised initially at fair value. Subsequent to initial recognition they are measured at amortised cost using the effective interest method.

Discontinued operations

A discontinued operation is a component of the Company's business that represents a separate major line of business or geographical area of operations that has been disposed of or is held for sale. Classification as a discontinued operation occurs upon disposal or when the operation meets the criteria to be classified as held for sale, if earlier. When an operation is classified as a discontinued operation, the comparative profit and loss account is restated as if the operation has been discontinued from the start of the comparative period.

Expenses

Operating lease payments

Payments made under operating leases are recognised in the income statement on a straight-line basis over the term of the lease. Lease incentives received are recognised in the income statement as an integral part of the total lease expense.

1 Accounting policies (continued)

Research and development expenditure

Expenditure on research activities is recognised in the income statement as an expense as incurred.

Expenditure on development activities is capitalised if the product or process is technically and commercially feasible and the Company intends and has the technical ability and sufficient resources to complete development, future economic benefits are probable and if the Company can measure reliably the expenditure attributable to the intangible asset during its development. Development activities involve a plan or design for the production of new or substantially improved products or processes. The expenditure capitalised includes the cost of materials, direct labour and an appropriate proportion of overheads and capitalised borrowing costs. Other development expenditure is recognised in the income statement as an expense as incurred. Capitalised development expenditure is stated at cost less accumulated amortisation and less accumulated impairment losses.

The majority of the expenditure that the company classifies as research and development relates to a gradual evolution of materials, products and processes over time through the activities of the company's technology and application engineering teams, and can be characterised as incremental in nature, and is therefore not capitalised.

Stocks

Stocks are stated at the lower of cost and net realisable value. Cost is based on the weighted average principle and includes expenditure incurred in acquiring the stocks, production or conversion costs and other costs in bringing them to their existing location and condition. In the case of manufactured stocks and work in progress, cost includes an appropriate share of overheads based on normal operating capacity.

Taxation

Tax on the profit or loss for the period comprises current tax. Tax is recognised in the income statement except to the extent that it relates to items recognised directly in equity or other comprehensive income, in which case it is recognised directly in equity or other comprehensive income.

Current tax is the expected tax payable or receivable on the taxable income or loss for the period, using tax rates enacted or substantively enacted at the balance sheet date, and any adjustment to tax payable in respect of previous years.

Deferred tax is provided on temporary differences between the carrying amounts of assets and liabilities for financial reporting purposes and the amounts used for taxation purposes. The following temporary differences are not provided for: the initial recognition of goodwill; the initial recognition of assets or liabilities that affect neither accounting nor taxable profit other than in a business combination, and differences relating to investments in subsidiaries to the extent that they will probably not reverse in the foreseeable future. The amount of deferred tax provided is based on the expected manner of realisation or settlement of the carrying amount of assets and liabilities, using tax rates enacted or substantively enacted at the balance sheet date.

A deferred tax asset is recognised only to the extent that it is probable that future taxable profits will be available against which the temporary difference can be utilised.

Turnover

Turnover represents the invoiced value of services to fellow subsidiary undertakings and sales to third parties exclusive of value added tax, less returns and allowances given in the normal course of trade. Turnover is recognised when or as the Company satisfies a performance obligation by transferring a promised good or service to a customer. The Company's principal performance obligation is the provision of specialist ceramic components, is satisfied at a point in time and subject to standard payment terms. Products and components are transferred when the customer obtains control of the goods. For goods that are collected by the customer, turnover is recognised at the point the customer has taken physical possession of the goods. For contracts that include delivery of goods, the delivery element of the contract constitutes a separate performance obligation because it is distinct. For these contracts, control of the goods does not transfer to the customer until the goods have been delivered and therefore both performance obligations are satisfied simultaneously. Turnover for these contracts is therefore recognised on delivery.

Accounting policies (continued)

Employee benefits

Defined contribution plans

A defined contribution plan is a post-employment benefit plan under which the Company pays fixed contributions into a separate entity and will have no legal or constructive obligation to pay further amounts. Obligations for contributions to defined contribution pension plans are recognised as an expense in the income statement in the periods during which services are rendered by employees.

Defined benefit plans

A defined benefit plan is a post-employment benefit plan other than a defined contribution plan. The Company's net obligation in respect of defined benefit pension plans is calculated by estimating the amount of future benefit that employees have earned in return for their service in the current and prior periods; that benefit is discounted to determine its present value, and the fair value of any plan assets (at bid price) and any unrecognised past service costs are deducted. The liability discount rate is the yield at the balance sheet date on AA credit rated bonds denominated in the currency of, and having maturity dates approximating to the terms of the Company's obligations. The calculation is performed by a qualified actuary using the projected unit credit method. When the calculation results in a benefit to the Company, the recognised asset is limited to the total of any unrecognised past service costs and the present value of benefits available in the form of any future refunds from the plan, reductions in future contributions to the plan or on settlement of the plan and takes into account the adverse effect of any minimum funding requirements.

The Company participates in two defined benefit schemes in the UK. The assets of these schemes are held in separate trustee-administered funds, The Morgan Pension Scheme (MPS) and the Morgan Group Senior Staff Pension and Life Assurance Scheme (SSS). These schemes were closed to new entrants on 1 August 2011, with any new employees receiving benefits through the Morgan Group Personal Pension Plan, a defined contribution arrangement. The Morgan Group Senior Staff Pension and Life Assurance Scheme was closed to the future accrual of benefits on and with effect from 6 April 2016. The Morgan Pension Scheme was closed to the future accrual of benefits on and with effect from 6 April 2018. Employees active in both Scheme(s) as at that date were enrolled in The Morgan Group Personal Pension Plan, with the option to opt out under relevant UK legislation.

During 2016 the Company adopted a new Morgan-Group policy to allocate costs associated with the UK pension schemes between the various Participating Employers, based on an evaluation of each entity's share of overall Scheme liabilities. This ensures that the pension liability is reflected in the entity that employed the participant. This resulted in a reallocation of £61,600,000 of the Schemes' net liabilities into the Company. Previously none of the scheme assets and liabilities were recognised on the balance sheet of the Company.

Share based payments

The share option programme allows employees to acquire shares of the ultimate parent company. The Company took advantage of the option available in IFRS 1 to apply IFRS 2 only to equity instruments that were granted after 7 November 2002 and that had not vested by 1 January 2015. The fair value of these options are recognised as an employee expense with a corresponding increase in equity. The fair value is measured at grant date and spread over the period during which the employees become unconditionally entitled to the options. The fair value of the options granted is measured using an option pricing model, taking into account the terms and conditions upon which the options were granted. The amount recognised as an expense is adjusted to reflect the actual number of share options that vest except where forfeiture is only due to share prices not achieving the threshold for vesting.

For cash-settled share based payment transactions, with the exception of those awards settled before the transition date, the fair value of the amount payable to the employee is recognised as an expense with a corresponding increase in liabilities. The fair value is measured at grant date and spread over the period during which the employees become unconditionally entitled to payment. The fair value is measured based on an option pricing model taking in to account the terms and conditions upon which the instruments were granted. The liability is revalued at each balance sheet date and settlement date with any changes to fair value being recognised in the profit and loss account.

Where the Company's ultimate parent grants rights to its equity instruments to the Company's employees, which are accounted for as equity-settled in the consolidated accounts of the parent, the Company accounts for these share-based payments as equity-settled.

Significant accounting estimates and judgements

The preparation of financial statements in conformity with FRS 101 requires the directors to make judgements, estimates and assumptions that affect the application of policies and reported amounts of assets and liabilities, income and expenses. The estimates and associated assumptions are based on historical experience and various other factors that are believed to be reasonable under the circumstances, the results of which form the basis of making the judgements about carrying values of assets and liabilities that are not readily apparent from other sources. Actual results may differ from these estimates.

The estimates and underlying assumptions are reviewed on an ongoing basis. The most significant judgements and estimates made in applying the Company accounting policies relate to:

Measurement of defined benefit scheme liabilities

The company recognises and measures costs relating to defined benefit schemes in accordance with IAS 19 (Revised) *Employee Benefits* ("IAS 19 (Revised)"). In applying IAS 19 (Revised) the costs are assessed in accordance with the advice of independent qualified actuaries. This requires the exercise of judgement in relation to the estimation of future changes in salaries and inflation, as well as mortality rates, expected return on plan assets and the selection of suitable discount rates. Further detail is provided in note 20.

2 Analysis of turnover

·	Turnover	
	2018	2017
	£000	£000
By activity		
Sales of specialist ceramic components and materials	44,402	45,877
•		
·	44,402	45,877
By geographical market		
United Kingdom	14,007	14,491
Continental Europe	18,009	21,316
The Americas	7,698	6,804
Other	4,688	3,266
	44,402	45,877

3 Notes to the profit and loss account		
	2018	2017
	£000	£000
Profit before taxation is stated after charging		
Depreciation and other amounts written off tangible and intangible fixed assets	1,739	1,836
Auditor remuneration		
Audit of these financial statements	46	43
- 		
Research and development expenditure	3,098	3,012
Operating lease rentals:		
Land and buildings	499	495
Plant and machinery	104	126

Amounts receivable by the Company's auditor and their associates in respect of services to the Company and its associates, other than the audit of the Company's financial statements, have not been disclosed as the information is required instead to be disclosed on a consolidated basis in the consolidated financial statements of the Company's ultimate parent, Morgan Advanced Materials plc.

4 Profit on Disposal of Business

On 22nd February 2017, it was announced that the assets of Morgan Technical Ceramics Ltd's UK Electro-Ceramics business (based in Ruabon & Southampton) would be sold to CeramTec UK Ltd. The disposal date was 3rd April 2017. The divestment is in line with Morgan Advanced Materials plc's strategy to simplify its portfolio and focus on global technology businesses of scale.

£000
(2,749)
(2,410)
(2,634)
2,094
(5,699)
46,870
(1,937)
44,933
(5,699)
39,234

5 Remuneration of Directors

	2018 £000	2017 £000
Directors' emoluments	174	366
Aggregate amount of money paid to directors on the exercise of share options	6	4
Company contributions to defined benefit pension schemes	-	-
Company contributions to money purchase pension schemes	9	9
	189	379

The aggregate of emoluments and amounts receivable under long-term incentive schemes of the highest paid Director was £189,000 (2017: £191,000).

	Numbers of Directors	
	2018	2017
Retirement benefits are accruing to the following number of directors under:		
Defined benefit schemes	-	-
Money purchase schemes	1	1
	1	1

6 Staff numbers and costs

The average number of persons employed by the Company (including directors) during the year, analysed by category, was as follows:

	Number of	employees
	2018	2017
Sales and marketing	24	24
Administration	67	69
Manufacturing	521	497
\		
	612	590
The aggregate payroll costs of these persons were as follows:		
	£000	£000
	•	
Wages and salaries	16,578	16,751
Social security costs	1,569	1,604
Other pension costs	1,552	1,718
	19,699	20,073

7 Pension Scheme Past Service Credit

	2018 £000	2017 £000
IAS 19 - Early and Late Retirement Adjustment	(2,667) 667	-
IAS 19 - Impact of Removing GMP Inequalities	(2,000)	-

Early and Late Retirement Adjustment

During 2018, the Group reviewed with the Trustees of Morgan Pension Scheme the factors applied on early and late retirement, and clarified the practice regarding the calculation of pension payments with members who elected to retire other than at the normal date of retirement. This was effected via a Deed of Amendment. This change resulted in a net gain of £2.7 million in the income statement.

Adjustment for Guaranteed Minimum Pensions (GMPs)

On 26 October 2018, the High Court ruled that the Trustee of the Lloyds Banking Group pension schemes needed to remove the inequalities in pension scheme benefits that arise from unequal GMPs. We have included a charge of £0.7 million to reflect the potential cost of removing the GMP inequalities for the Group's UK defined benefit pension schemes in the income statement.

The net impact of these pension adjustments is a credit to the income statement of £2.0 million.

8 Reorganisation costs

2018	2017
£000	£000

217

Redundancy and reorganistion, net of provision releases

9	Interest receivable and similar income		
		2018	2017
		0003	£000
Interest reco	eivable from third parties	13	7
Interest rec	eivable from Group undertakings	2,046	1,397
		2,059	1,404

10	interest payable and similar expense		
		2018	2017
		£000	£000

11 Taxation Analysis of charge in year

·	20	18 2017
	0002	000 £000 £000
UK corporation tax		
Current tax on profit for the year	(42)	297
Adjustments in respect of prior years	1,092	815
Tax on profit	1,0	50 1,112

Deferred tax assets of £9,361,575 (capital allowances £2,076,925, pensions £7,284,650) have not been recognised due to the inherent uncertainty within the UK group over the use of the potential asset against future profits.

Factors affecting the tax charge for the current year:

The current tax charge for the year is lower (2017: lower) than the standard rate of corporation tax in the UK of 19.0% (2017: 19.25%). The differences are explained below.

	2018	2017
	£000	£000
Total tax reconciliation		
Profit before tax	7,686	42,358
	7,686	42,358
Current tax at 19.00% (2017: 19.25%)	1,460	8,152
Effects of:		
Expenses not deductible for tax purposes	8	85
Income not taxable for tax purposes	-	(7,551)
Fixed asset differences	6	-
Foreign tax credit	3	-
Adjustment in respect of prior years	1,092	815
Deferred tax not recognised	(1,519)	(389)
Total tax charge (see above)	1,050	1,112

Reductions in the UK corporation tax rate from 20% to 19% (effective from 1 April 2017) and to 18% (effective 1 April 2020) were substantively enacted on 26 October 2015, and an additional reduction to 17% (effective 1 April 2020) was substantively enacted on 6 September 2016. This will reduce the company's future current tax charge accordingly.

12 Intangible fixed assets

	Technology related intangible assets £000	Goodwill £000	Total
Cost			
At beginning of year	527	6,129	6,656
Additions	-		•
At end of year	527	6,129	6,656
Amortisation			
At beginning of year	418	6,129	6,547
Charged in year	59	-	59
At end of year	477	6,129	6,606
Net book value			
At 31 December 2018	50	-	50
At 31 December 2017	109	-	109
Amortisation charge			
The amortisation charge is recognised in the following line item in the income statement:			
		2018	2017
		£000	£000
Depreciation and other amounts written off tangible and intangible fixed assets	_	. 59	59

13 Tangible fixed assets	Land and	Plant and	Total
	buildings	machinery	
	£000	£000	£000
Cost			
At beginning of year	4,671	21,335	26,006
Additions	52	2,600	2,652
Disposals	-	-	-
At end of year	4,723	23,935	28,658
Depreciation	٠		
At beginning of year	1,321	11,807	13,128
Charge for year	142	1,538	1,680
Disposals	-	-	-
At end of year	1,463	13,345	14,808
Net book value			
At 31 December 2018	3,260	10,590	13,850
At 31 December 2017 =	3,350	9,528	12,878
The net book value of land and buildings comprises:			
~ .		2018	2017
		£000	£000
Freehold		3,260	3,350

14 Stocks

14 Stucks		
	2018	2017
	£000	£000
Raw materials and consumables	2,778	2,528
Work in progress	. 2,163	2,113
Finished goods and goods for resale	1,358	757
	6,299	5,398
	====	

Included within finished goods are £471,000 (2017: £146,000) of stocks held on consignment.

The amount of stocks expensed to the profit and loss account in the year was £22,872,000. (2017: £23,087,000)

The value of stocks written down and expensed in the profit and loss account amounted to £116,000. (2017:£146,000)

15 Debtors

15 Deptors		
. 20	18 20	017
£(000 £0	000
Trade debtors 4,5	24 5,3	389
Amounts owed by Group undertakings 57,5	20 58,7	710
Other debtors	74	44
Derivative financial instruments	73	740
Prepayments and accrued income	85 2	285
63,0	65,1	168
Due within one year 6,5	15 8,4	409
Due after more than one year 56,	61 56,	759

Debtors include amounts owed by Group undertakings of £56,761,000 (2017: £56,759,000) due after more than one year. Interest has been charged on this loan at libor plus 0.65% during the year. (2017: libor plus 0.82%).

198

2,215

11,439

47

1,595

10,585

16	Creditors: amounts falling due within one year		
		2018	2017
		£000	£000
Trade cre	editors	4,906	4,935
Amounts	owed to Group undertakings	416	1,529
Corporat	ion tax	3,621	2,562

Amounts owed to group undertakings are repayable on demand and no interest is charged.

Derivative financial instruments

Other creditors

17 Capital and reserves

Share capital	Or	dinary shares
In thousands of shares		2018
On issue at 1 January 2018 and 31 December 2018		27,500
	•	
	2018	2017
	£000	£000
Allotted, called up and fully paid		
Ordinary shares of £1 each	27,500	27,500

18 Contingent liabilities

The Company participates in a cash pooling arrangement provided by Barclays Bank plc with other UK Group companies. As part of that pooling arrangement, the Company has provided a Guarantee for the liabilities of the other participating companies to the bank limited to the lower of:
(a) an amount equal to the base currency amount of the total liabilities in the cash pool (Dec 2018: £37.7m); and
(b) an amount equal to the base currency amount of such Guarantor's own credit balance in the cash pool (Dec 2018: £9.2m).

The Company, together with a number of other Group companies, has provided guarantees to support the liabilities of Morgan Advanced Materials plc in respect of the revolving credit facility agreement entered into in October 2014 (RCF) and the Euro private placement notes raised in June 2010 (PP) and October 2016. The Company has similarly provided guarantees to support the liabilities of Morganite Industries Inc under the terms of private placement notes raised in 2007 (PP). The Group's RCF and PP are disclosed in the Annual Report of Morgan Advanced Materials plc.

The Group's revolving credit facility was drawn at the year end (Dec 2018: £15.0m).

19 Operating leases

Non-cancellable operating leases are payable as follows:

	2018		2017	
	Land and buildings	Other	Land and buildings	Other
	£000	£000	£000	£000
Total Operating leases commitments:				
Less than one year	466	112	440	102
In the second to fifth years inclusive	1,722	209	1,652	185
Over five years	2,076	-	. 2,186	· -
	4,264	321	4,278	287

During the year £603,000 (2017: £621,000) was recognised as an expense in the income statement in respect of operating leases.

2018

2017

20 Employee benefits: pensions

The Morgan Pension Scheme and the Morgan Group Senior Staff Pension and Life Assurance Scheme

The Company participates in two defined benefit schemes in the UK. The assets of these schemes are held in separate trustee-administered funds, The Morgan Persion Scheme (MPS) and the Morgan Group Senior Staff Persion and Life Assurance Scheme (SSS). These schemes were closed to new entrants on 1 August 2011, with any new employees receiving benefits through the Morgan Group Personal Pension Plan, a defined contribution arrangement. The Morgan Group Senior Staff Pension and Life Assurance Scheme was closed to the future accrual of benefits on and with effect from 6 April 2016. Employees active in the Scheme as at that date were enrolled in The Morgan Group Persion Plan, with the option to opt out under relevant UK legislation.

On 30th September 2016 the Company adopted a new Morgan-Group policy to allocate costs associated with the UK pension schemes between the various Participating Employers, based on an evaluation of each entity's share of overall Scheme liabilities. This ensures that the pension liability is reflected in the entity that employed the participant. This resulted in a reallocation of £61,600,000 of the Schemes' net liabilities into the Company. Previously none of the scheme assets and liabilities were recognised on the balance sheet of the Company.

	2018	2017
Pension plans and employee benefits		0003
Present value of funded defined benefit obligations	(152,041)	(165,641)
Fair value of plan assets	110,273	115,996
Net obligations	(41,768)	(49,645)
Movements in present value of defined benefit obligation		
At 1 January 2018	(165,641)	(161,194)
Reallocation of defined benefit obligation	(105,041)	(2,400)
Current service cost	(300)	(1,047)
Past service cost	2,000	(1,047)
Interest cost	(3,900)	(4,100)
Remeasurement (losses)/gains:	. (3,>00)	(1,100)
Changes in financial assumptions	8,900	(4,700)
Changes in demographic assumptions	1,300	2,600
Experience adjustments on benefit obligations	(300)	(700)
Benefits paid	6,000	6,200
Contributions by members	(100)	(300)
At 31 December 2018	(152,041)	(165,641)
A ST December 2010	(100,011)	(100,01.1)
Movements in fair value of plan assets		•
At 1 January 2018	115,996	108,553
Reallocation of fair value of plan assets	-	1,600
Interest on plan assets	2,700	2,800
Remeasurement of gains/(losses):	(6,100)	5,400
Contributions by employer	3,577	3,643
Contributions by members	100	300
Benefits paid	(6,000)	(6,200)
Administrative expenses		(100)
At 31 December 2018	110,273	115,996
Actual return on assets	(3,400)	8,200
Pension plans and employee benefits	£000	£000
Expense recognised in the consolidated income statement		
Current service cost	(300)	(1,047)
Administrative expenses	•	(100)
Net interest on defined benefit liability	(1,200)	(1,300)
Total expense	(1,500)	(2,447)
The fair values of the plan assets were as follows:		
THE IAB VALUES OF THE PIAN ASSESS WELL AS TOTIONS.	000£	£000
Equities and growth assets	25,100	41,800
Bonds	38,400	25,100
Matching insurance policies	41,100	44,200
Other	5,696	4,896
Total	110,296	115,996

The assumptions used are best estimate assumptions chosen from a range of possible actuarial assumptions which may not be borne out in practice. The principal assumptions are the discount rate and inflation assumptions which are long-term and measured on external factors, based upon each plan's duration. In addition to these, the mortality assumption in the UK is material to the cost of the promised benefits. The assumed increases in salaries and pensions in payment are derived from assumed future inflation.

Principal actuarial assumptions at the year end were as follows:

	2018	2017
Assumptions:	%	%
Inflation (RPI & CPI)	3.20/2.10	3.10/2.00
Discount rate	2.70	2.40
Pensions increase	3.00/3.10/3.70	3.00/3.00/3.60
Salary increase	n/a	n/a
Mortality - post-retirement:		
Life expectancy of a male aged 60 in accounting year	26.5 years	26.6 years
Life expectancy of a male aged 60 in accounting year + 20	28.0 years	28.2 years

History of the plans

 The history of the plans are as follows:
 2018
 2017

 Balance Sheet
 2000
 £000
 £000

 Present value of the defined benefit obligation
 (152,041)
 (165,641)

 Fair value of plan assets
 110,273
 115,996

 Deficit
 (41,768)
 (49,645)

 Funding:

The most recent full actuarial valuations of the UK Schemes were undertaken as at March 2016 and resulted in combined assessed deficits of £132 million. On the basis of these full valuations, the Trustees of the UK Schemes, having consulted with the Group, agreed past service deficit recovery payments totalling £12 million a year from April 2017, increasing by 2.75% pa until 2025, with further payments to to Morgan Pension Scheme for 2026 and 2027 and contributions in respect of future service as accrued. New full valuations are due with effective dates of March 2019 and the outcome of those consultations will determine the Group's future contribution requirements, with any new deficit arising needing to be met through the payment of additional contributions

Sensitivity analysis

The sensitivities of the Company's net balance sheet to the principal assumptions are:		2018	2017
		Increase effect	Increase effect
	Change in assumption	£000	£000
Discount rate	Decrease by 0.1%	2,100	2,400
Inflation	Increase by 0.1%	1,100	1,300
Mortality - post retirement	Pensioners live 1 year longer	4,000	4,600

These sensitivities have been calculated to show the movement in the net balance sheet in isolation, and assuming no other changes in market conditions at the accounting date. This is unlikely in practice for example, a change in discount rate is unlikely to occur without any movement in the value of the assets held by the Company's schemes.

Defined contribution plans

The Company operates a defined contribution pension plan (the Morgan Group Personal Pension Plan). The total Company expense relating to this plan in 2018 was £1,252,000 (2017: £412,000). Total pension contributions outstanding at the year end amounted to £118,000 (2017: £66,000).

21 Employee share schemes

Share-based payments

Certain employees of the Company participate in various share option programmes that allow Morgan Group employees to acquire shares in the ultimate parent company. Under the Morgan Advanced Materials plc Long-Term Incentive Plan (LTIP) awards of shares are made or have been made to various key executives. The ultimate parent company also maintains a UK all-employee Sharesave scheme (Employee Sharesave Scheme 2004). The grant date fair value of options granted to employees is recognised as an employee expense, with a corresponding increase in equity, over the period that the employees become unconditionally entitled to the options. The amount recognised as an expense is adjusted to reflect the actual number of share options for which the related service and non-market vesting conditions are met

Note 22 to the consolidated financial statements of Morgan Advanced Materials plc gives full information on the terms and conditions applying to share options outstanding at 31 December 2018.

22 Derivative financial assets and liabilities

	2018	2017
		£000
Derivative financial assets		
Forward foreign exchange contracts designated as cash flow hedges	173	740
Derivative financial liabilities	(47)	(100)
Forward foreign exchange contracts designated as cash flow hedges	(47)	(198)
	126	542

Fair values are measured using a hierarchy where the inputs are:

Level 1 - quoted prices (unadjusted) in active markets for identical assets or liabilities, or indirectly,

Level 3 - inputs for the assets or liability that are not based on observable market data (unobservable inputs).

The derivative financial assets and liabilities are all measured using Level 2 inputs. The fair value of forward foreign exchange contracts is estimated by discounting the future cash flows using appropriate market sourced data at the balance sheet date.

23 Ultimate parent company and parent undertaking of the larger Group of which the Company is a member

The Directors regard Morgan Europe Holding Limited, incorporated in England and Wales, as being the Company's immediate parent undertaking and Morgan Advanced Materials plc, incorporated in England and Wales, the ultimate parent undertaking. The smallest and largest group in which the results of the Company are consolidated is that headed by Morgan Advanced Materials plc. The Consolidated accounts of Morgan Advanced Materials plc are available to the public and may be obtained from its registered office situated at Quadrant, 55-57 High Street, Windsor, Berkshire SL4 1LP.

24 Acquisitions of trade and assets from group companies

On 1st January 2017, Morgan Technical Ceramics Limited purchased the trade and certain assets and liabilities of the Seals & Bearings business from Morgan Electrical Carbon Limited. This transfer was to facilitate the cooperation between the two sites, Stourport and Redditch, arising from the growing overlap in products and customers. The transfer was funded by a short-term interest-bearing loan from Morgan Electrical Carbon Limited.

	Book Value £000
Effect of the acquisition on individual assets and liabilities	
Tangible fixed assets	1,072
Stocks	532
Trade Debtors	442
Trade Creditors	(101)
Net identifiable assets and liabilities	1,945
Consideration	1,945

The consideration for the above acquisition was by way of a loan agreement between Morgan Technical Ceramics Ltd and Morgan Electrical Carbon Ltd.