(CDAX, Chemicals, ACT GR)



D		Value Indicators:	EUR	Warburg ESG Risk Score:	2.4	Description:	
Buy		DCF:	40.10	ESG Score (MSCI based):	3.0		
		FCF-Value Potential 23-25:	41.65	Balance Sheet Score:	3.3	Alzchem is an integrated spe chemicals provider	eclaity
EUR 40.00	(EUR 33.50)	SotP 23-24:	43.35	Market Liquidity Score:	1.0		
		Market Snapshot:	EUR m	Shareholders:		Key Figures (WRe):	2023e
		Market cap:	253.4	Freefloat	47.08 %	Beta:	1.6
Price	EUR 24.90	No. of shares (m):	10.2	LIVIA Corporate Development	25.13 %	Price / Book:	1.5 x
Upside	60.6 %	EV:	404.2	for two na GmbH	15.05 %	Equity Ratio:	39 %
- perme		Freefloat MC:	119.3	HDI Vier CE GmbH	12.74 %	Net Fin. Debt / EBITDA:	0.8 x
		Ø Trad. Vol. (30d):	126.67 th			Net Debt / EBITDA:	1.9 x

Structural changes in product mix drive profitability

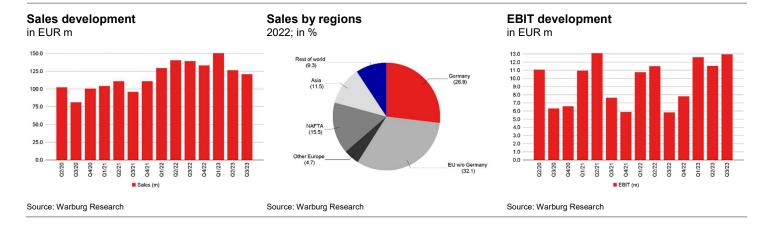
Q3 2023 sales of EUR 120.8m (-13.2% yoy) were hit by lower volumes (-12.8%) but benefited from higher selling prices (+1.1%). This was a continuation of the trends that started in Q1 2023. Adverse FX effects shaved off -1.5%. EBITDA increased considerably to EUR 19.5m (+60.8%), mostly driven by positive mix-effects, which allowed for a significant reduction in raw-material and energy costs. As a consequence, the gross margin increased to 59.8% from 45.9% in Q3 2022. Gross-margin expansion started in Q1 2023 and accelerated towards Q3 2023. We expect a stabilisation of the gross margin at the Q3 level in Q4 2023. Looking at the segments, Basic & Intermediates recorded a sales decline of -25.7% yoy in Q3 2023 as volumes were -21.4% lower and prices -3.5% lower. FX effects were mostly negligible (-0.7%). High energy costs forced Alzchem to raise prices, denting the company's competitiveness, especially for products for the agricultural and the pharmaceutical sectors compared with Asian producers. Thus, Alzchem decided to forgo market share rather than chase low-margin business. As a consequence, the segment generated EBITDA of EUR 1.1m following an EBITDA loss of EUR -2.6m in Q3 2022. As German electricity prices are set to remain high, we do not expect this situation to change in the short to medium term. Sales in the Specialty Chemicals segment declined by -4.5% yoy to EUR 69.5m. The segment suffered from adverse volume development (-7.2%) but benefited from rising prices (+4.7%). FX had a negative impact of -2.2%. Nevertheless, EBITDA increased by 26.6% to EUR 18.5m. The increase in profitability (EBITDA margin of 26.7%, up 660bps yoy) was mostly attributable to Creapure® capacity expansions, which allowed sales of the product to almost double yoy. Sales of Creamino® and guanidine salts also increased significantly. In contrast, lower volumes were recorded in BioSelect® due to high customer inventory levels while the general low demand situation in the chemical industry adversely affected DYHARD® volumes. Given the continued strong demand from the food and feed supplement industry, Alzchem is further increasing its production capacities. Therefore, we expect the positive development to continue well into FY 2024. The Other & Holding segment recorded a 5.1% yoy increase in sales to EUR 7m, as cost increases and higher grid fees were passed on to customers. EBITDA, however, declined by -30.6% yoy to EUR 0.7m as costs for internal technical supply and network could not be passed on in Q3.

After 9M 2023, the company generated FCF of EUR 44.7m, well above the EUR -14.1m of last year. This enabled Alzchem to increase its equity ratio from 31.4% in Q3 2022 to now 37.6%. Based on our revised estimates, driven by structural changes in the group's product mix, we raise our PT to EUR 40 (based on a DCF calculation) and reiterate our Buy rating.

Changes in E	Estimates:						Comment on Changes:
FY End: 31.12. in EUR m	2023e (old)	+ / -	2024e (old)	+ / -	2025e (old)	+ / -	 Changes in estimates mainly reflect a structural change in the product mix.
Sales	574.1	-6.2 %	612.5	-8.1 %	633.9	-8.4 %	
EBIT	41.0	33.9 %	46.7	22.0 %	50.2	22.2 %	
EPS	2.63	30.2 %	3.04	22.0 %	3.33	22.8 %	
DPS	1.10	0.0 %	1.15	0.0 %	1.25	0.0 %	
Net Debt	167.6	-10.0 %	158.4	-13.2 %	154.3	-16.5 %	
Net Debt	107.0	-10.0 %	158.4	-13.2 %	154.3	-16.5 %	

25 -		FY End: 31.12. in EUR m	CAGR (22-25e)	2019	2020	2021	2022	2023e	2024e	2025e
24 - 23 -	Ň	Sales	2.3 %	376.1	379.3	422.3	542.2	538.3	562.8	580.6
22 -	I N	Change Sales yoy		0.2 %	0.8 %	11.3 %	28.4 %	-0.7 %	4.6 %	3.2 %
21 -		Gross profit margin	40.0.0/	60.8 %	64.4 %	62.0 %	50.8 %	54.3 %	53.6 %	53.9 %
20 - March month D. wal	What I	EBITDA	13.3 %	50.1	53.8	62.0	61.4	80.1	84.0	89.4
19 Martin Martin	m m	Margin	40.0.0/	13.3 %	14.2 %	14.7 %	11.3 %	14.9 %	14.9 %	15.4 %
18 H. J.	whyw	EBIT	19.6 %	30.6	30.7	37.6	35.9	54.8	57.0	61.4
17 - 44	-	Margin	11 5 0/	8.1 %	8.1 %	8.9 %	6.6 %	10.2 %	10.1 %	10.6 %
16 - 🔨		Net income	11.5 %	18.0	19.7	27.6	30.1	34.8	37.8	41.7
01/23 03/23 05/23 07/23 0	9/23 11/23	EPS	11.3 %	1.77	1.94	2.72	2.96	3.42	3.71	4.09
Alzchem - CDAX (normalise		EPS adj.	11.3 %	1.77	1.94	2.72	2.96	3.42	3.71	4.09
Alzenem — CDAX (normalise	(d)	DPS	6.0 %	0.75	0.77	1.00	1.05	1.10	1.15	1.25
Rel. Performance vs CDAX		Dividend Yield		3.5 %	3.9 %	4.1 %	5.3 %	4.4 %	4.6 %	5.0 %
		FCFPS		0.23	1.95	1.43	-3.23	3.38	2.62	2.16
1 month:	5.1 %	FCF / Market cap		1.1 %	9.9 %	5.9 %	-16.3 %	13.6 %	10.5 %	8.7 %
6 months:	35.5 %	EV / Sales		1.1 x	1.0 x	1.0 x	0.7 x	0.8 x	0.7 x	0.7 x
Year to date:	34.7 %	EV / EBITDA		8.1 x	7.2 x	6.9 x	6.1 x	5.0 x	4.7 x	4.3 x
Trailing 12 months:	26.4 %	EV / EBIT		13.2 x	12.6 x	11.3 x	10.5 x	7.4 x	6.9 x	6.2 x
		P/E		12.0 x	10.2 x	8.9 x	6.7 x	7.3 x	6.7 x	6.1 x
Company events:		P / E adj.		12.0 x	10.2 x	8.9 x	6.7 x	7.3 x	6.7 x	6.1 x
		FCF Potential Yield		6.4 %	7.9 %	9.1 %	11.6 %	13.8 %	12.2 %	13.6 %
		Net Debt		188.3	185.4	179.8	174.8	150.8	137.5	128.8
		ROCE (NOPAT)		9.2 %	8.9 %	10.9 %	8.9 %	12.3 %	12.5 %	12.8 %
		Guidance: F	Y 2023: EBIT	DA slightly g	rowing to up	to EUR 80n	ı			



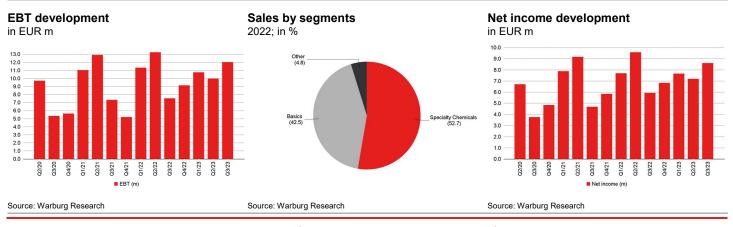


Company Background

- Alzchem goes back to the Bayerische Stickstoff-Werke GmbH (1908), which built a large calcium carbide and calcium cyanamide plant on the river Alz
- In 1939, Bayerische Kraftwerk AG and Donauwerke AG merged to form S
 üddeutsche Kalkstickstoffe AG, based in Trostberg. In 1978 company's name was changed to SKW Trostberg AG
- Merger of Degussa Hüls AG with Trostberg AG to form Degussa AG in 2000. Merger of the Alz locations Trostberg, Schalchen, Hart and Waldkraiburg into AlzChem Holding GmbH in 2006
- Takeover by bluO in 2009, conversion to Alzchem AG 2011. In 2019 the company heavily invested in the area of feed additives with the construction of a dedicated CreAMINO® production facility
- Alzchem is brought into the listed Alzchem Group AG (formerly Softmatic AG). Alzchem Group AG is the new parent company of the Alzchem Group. 2019 Commissioning of investment projects Creamino® and Nitrile

Competitive Quality

- Alzchem is a globally active, vertically integrated manufacturer of various chemical products of the calcium carbide/calcium cyanamide chain with a strategic focus on growth in the Specialty Chemicals business segment
- Alzchem's integrated manufacturing "Verbund" system enables efficiency gains in production. The company is the global leader or among the leading companies in its chosen fields of activity
- The company has four production facilities in Germany and one in Sweden that are complemented by two marketing companies in the US and in China allowing for global distribution of its products
- The company is benefiting from megatrends like sustainable energy production, population growth and increase in aging population. Its products offer attractive solutions that meet demand growth.
- Alzchem provides a highly diversified product portfolio ranging e.g. from dietary supplements, plant growth regulators to precursors for corona testing, thus addressing a wide range of customer industries





DCF model														
	Detaile	d forecas	t period				٦	ransition	al period					Term. Value
Figures in EUR m	2023e	2024e	2025e	2026e	2027e	2028e	2029e	2030e	2031e	2032e	2033e	2034e	2035e	
Sales	538.3	562.8	580.6	600.9	621.4	641.9	662.4	682.9	703.4	723.1	741.9	759.7	776.4	
Sales change	-0.7 %	4.6 %	3.2 %	3.5 %	3.4 %	3.3 %	3.2 %	3.1 %	3.0 %	2.8 %	2.6 %	2.4 %	2.2 %	1.0 %
EBIT	54.8	57.0	61.4	64.2	65.7	67.3	69.4	71.6	73.7	76.5	78.5	78.9	79.0	
EBIT-margin	10.2 %	10.1 %	10.6 %	10.7 %	10.6 %	10.5 %	10.5 %	10.5 %	10.5 %	10.6 %	10.6 %	10.4 %	10.2 %	
Tax rate (EBT)	28.0 %	28.0 %	28.0 %	28.0 %	28.0 %	28.0 %	28.0 %	28.0 %	28.0 %	28.0 %	28.0 %	28.0 %	28.0 %	
NOPAT	39.5	41.0	44.2	46.2	47.3	48.4	50.0	51.5	53.1	55.1	56.5	56.8	56.9	
Depreciation	25.3	27.1	28.0	29.6	31.2	32.9	33.9	35.0	36.0	36.3	37.3	38.1	39.0	
in % of Sales	4.7 %	4.8 %	4.8 %	4.9 %	5.0 %	5.1 %	5.1 %	5.1 %	5.1 %	5.0 %	5.0 %	5.0 %	5.0 %	
Changes in provisions	-0.3	2.0	1.4	3.3	3.3	3.3	3.3	3.3	3.3	3.2	3.0	2.9	2.7	
Change in Liquidity from														
- Working Capital	-0.7	4.5	3.2	5.2	5.2	5.2	5.2	5.2	5.2	5.0	4.8	4.5	4.3	
- Capex	24.7	34.7	34.7	35.5	36.0	36.6	36.4	36.2	35.9	36.2	37.1	38.0	38.8	
Capex in % of Sales	4.6 %	6.2 %	6.0 %	5.9 %	5.8 %	5.7 %	5.5 %	5.3 %	5.1 %	5.0 %	5.0 %	5.0 %	5.0 %	
- Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Free Cash Flow (WACC Model)	40.4	30.9	35.7	38.4	40.6	42.8	45.5	48.4	51.3	53.4	54.9	55.3	55.5	56
PV of FCF	40.4	28.3	29.9	29.5	28.5	27.5	26.8	26.1	25.3	24.1	22.7	20.9	19.2	234
share of PVs		16.91 %						42.9	5 %					40.14 %
Model parameter							Valuat	ion (m)						
Derivation of WACC:			Derivation	of Beta:			Presen	t values 20	035e	34	.9			
							Termin	al Value		23	4			
Debt ratio	30.00 %		Financial S	Strength		1.60	Financ	al liabilitie	s	ç	4			
Cost of debt (after tax)	3.6 %		Liquidity (s	share)		2.00	Pensio	n liabilities	;	ç	0			
Market return	8.25 %		Cyclicality			1.50	Hybrid	capital			0			
Risk free rate	2.75 %		Transpare	ncy		2.00	Minorit	y interest			2			
			Others			1.00	Market	val. of inv	estments		0			
							Liquidit	y			9	No. of sha	ares (m)	10.1
WACC	9.24 %		Beta			1.62	Equity	Value		40	6	Value per	share (F	UR) 40.10

Sensitivity Value per Share (EUR)

		Terminal (Growth								Delta EBIT	-margin					
Beta	WACC	0.25 %	0.50 %	0.75 %	1.00 %	1.25 %	1.50 %	1.75 %	Beta	WACC	-0.8 pp	-0.5 pp	-0.3 pp	+0.0 pp	+0.3 pp	+0.5 pp	+0.8 pp
1.88	10.2 %	32.46	32.90	33.36	33.84	34.36	34.90	35.47	1.88	10.2 %	29.83	31.17	32.50	33.84	35.18	36.52	37.86
1.75	9.7 %	35.16	35.68	36.22	36.79	37.40	38.04	38.73	1.75	9.7 %	32.55	33.96	35.38	36.79	38.21	39.62	41.03
1.68	9.5 %	36.63	37.19	37.78	38.40	39.06	39.76	40.51	1.68	9.5 %	34.03	35.49	36.94	38.40	39.85	41.31	42.76
1.62	9.2 %	38.18	38.78	39.42	40.10	40.83	41.60	42.42	1.62	9.2 %	35.61	37.11	38.61	40.10	41.60	43.10	44.60
1.56	9.0 %	39.82	40.48	41.18	41.92	42.71	43.55	44.46	1.56	9.0 %	37.29	38.83	40.38	41.92	43.46	45.01	46.55
1.49	8.7 %	41.56	42.28	43.04	43.85	44.72	45.65	46.64	1.49	8.7 %	39.07	40.67	42.26	43.85	45.45	47.04	48.63
1.36	8.2 %	45.37	46.23	47.15	48.13	49.18	50.31	51.52	1.36	8.2 %	43.02	44.72	46.43	48.13	49.83	51.53	53.24

• The beta value Beta value reflects the limited liquidity of the share (Free float 47.5%),

• In addition, transparency is reduced for structural reasons as Alzchem is positioned as a B2B company

Warburg Research's valuation tool "FCF Value Potential" reflects the ability of the company to generate sustainable free cash flows. It is based on the "FCF potential" - a FCF "ex growth" figure - which assumes unchanged working capital and pure maintenance capex. A value indication is derived via the perpetuity of a given year's "FCF potential" with consideration of the weighted costs of capital. The fluctuating value indications over time add a timing element to the DCF model (our preferred valuation tool).

WARBURG RESEARCH

in EUR m		2019	2020	2021	2022	2023e	2024e	2025e
Net Income before minorities		18.1	19.9	27.8	30.2	35.0	38.0	41.8
+ Depreciation + Amortisation		19.5	23.1	24.5	25.5	25.3	27.1	28.0
 Net Interest Income 		-2.6	-2.1	-1.5	-2.5	-6.0	-4.0	-3.1
 Maintenance Capex 		14.5	14.7	14.8	14.8	10.6	21.2	20.8
+ Other		0.0	0.0	0.0	0.0	0.0	0.0	0.0
= Free Cash Flow Potential		25.8	30.4	38.9	43.4	55.7	47.9	52.1
FCF Potential Yield (on market EV)		6.4 %	7.9 %	9.1 %	11.6 %	13.8 %	12.2 %	13.6 %
WACC		9.24 %	9.24 %	9.24 %	9.24 %	9.24 %	9.24 %	9.24 %
= Enterprise Value (EV)		404.4	387.2	425.3	375.2	404.2	390.9	382.2
= Fair Enterprise Value		278.9	328.9	420.8	469.7	602.3	518.1	563.3
- Net Debt (Cash)		84.7	84.7	84.7	84.7	61.0	45.6	35.4
- Pension Liabilities		90.1	90.1	90.1	90.1	89.8	91.9	93.3
- Other		0.0	0.0	0.0	0.0	0.0	0.0	0.0
 Market value of minorities 		0.0	0.0	0.0	0.0	0.0	0.0	0.0
 Market value of investments 		0.0	0.0	0.0	0.0	0.0	0.0	0.0
= Fair Market Capitalisation		104.1	154.0	246.0	294.9	451.5	380.6	434.5
Number of shares, average		10.2	10.2	10.1	10.1	10.2	10.2	10.2
= Fair value per share (EUR)		10.23	15.14	24.27	29.09	44.36	37.40	42.70
premium (-) / discount (+) in %						78.2 %	50.2 %	71.5 %
Sensitivity Fair value per Share (E	UR)							
1:	2.24 %	3.52	7.25	14.09	17.74	29.98	25.02	29.25
1	1.24 %	5.37	9.43	16.88	20.85	33.97	28.45	32.98
1	0.24 %	7.58	12.03	20.21	24.57	38.74	32.56	37.44
WACC	9.24 %	10.23	15.14	24.27	29.09	44.36	37.40	42.70
	8.24 %	13.60	19.14	29.30	34.72	51.75	43.75	49.61
	7.24 %	17.86	24.16	35.73	41.89	60.95	51.66	58.21
	6.24 %	23.49	30.79	44.22	51.36	73.10	62.12	69.58

· Historical volatility of the value indication is due to cyclical operative development



Valuation							
	2019	2020	2021	2022	2023e	2024e	2025e
Price / Book	3.6 x	3.0 x	2.8 x	1.4 x	1.5 x	1.3 x	1.1 x
Book value per share ex intangibles	5.72	6.40	8.42	13.92	16.27	18.91	21.87
EV / Sales	1.1 x	1.0 x	1.0 x	0.7 x	0.8 x	0.7 x	0.7 x
EV / EBITDA	8.1 x	7.2 x	6.9 x	6.1 x	5.0 x	4.7 x	4.3 x
EV / EBIT	13.2 x	12.6 x	11.3 x	10.5 x	7.4 x	6.9 x	6.2 x
EV / EBIT adj.*	13.2 x	12.6 x	11.3 x	10.5 x	7.4 x	6.9 x	6.2 x
P / FCF	93.8 x	10.1 x	16.9 x	n.a.	7.4 x	9.5 x	11.5 x
P/E	12.0 x	10.2 x	8.9 x	6.7 x	7.3 x	6.7 x	6.1 x
P / E adj.*	12.0 x	10.2 x	8.9 x	6.7 x	7.3 x	6.7 x	6.1 x
Dividend Yield	3.5 %	3.9 %	4.1 %	5.3 %	4.4 %	4.6 %	5.0 %
FCF Potential Yield (on market EV)	6.4 %	7.9 %	9.1 %	11.6 %	13.8 %	12.2 %	13.6 %
*Adjustments made for: Restructuring costs, value adjust	stments, one-off earnings/lo	sses					

Consolidated profit & loss



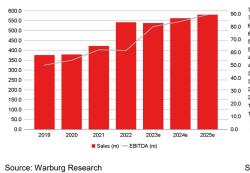
In EUR m	2019	2020	2021	2022	2023e	2024e	20256
Sales	376.1	379.3	422.3	542.2	538.3	562.8	580.6
Change Sales yoy	0.2 %	0.8 %	11.3 %	28.4 %	-0.7 %	4.6 %	3.2 %
Increase / decrease in inventory	-4.9	-2.5	10.0	22.2	0.0	0.0	0.0
Own work capitalised	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Sales	371.2	376.7	432.3	564.4	538.3	562.8	580.6
Material expenses	142.4	132.5	170.7	288.9	246.0	260.9	267.5
Gross profit	228.8	244.2	261.7	275.5	292.3	301.9	313.1
Gross profit margin	60.8 %	64.4 %	62.0 %	50.8 %	54.3 %	53.6 %	53.9 %
Personnel expenses	122.1	127.4	132.2	137.1	141.8	144.3	147.8
Other operating income	17.1	10.7	11.4	24.2	23.1	24.1	24.9
Other operating expenses	73.8	73.7	78.8	101.1	93.5	97.7	100.8
Unfrequent items	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EBITDA	50.1	53.8	62.0	61.4	80.1	84.0	89.4
Margin	13.3 %	14.2 %	14.7 %	11.3 %	14.9 %	14.9 %	15.4 %
Depreciation of fixed assets	19.5	23.1	24.5	25.5	25.3	27.1	28.0
EBITA	30.6	30.7	37.6	35.9	54.8	57.0	61.4
Amortisation of intangible assets	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Goodwill amortisation	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EBIT	30.6	30.7	37.6	35.9	54.8	57.0	61.4
Margin	8.1 %	8.1 %	8.9 %	6.6 %	10.2 %	10.1 %	10.6 %
EBIT adj.	30.6	30.7	37.6	35.9	54.8	57.0	61.4
Interest income	0.1	0.0	0.0	0.0	0.9	1.9	1.2
Interest expenses	2.7	2.1	1.5	2.5	6.9	5.9	4.3
Other financial income (loss)	-2.5	-1.4	0.4	7.9	-0.2	-0.2	-0.2
EBT	25.5	27.2	36.5	41.3	48.6	52.7	58.1
Margin	6.8 %	7.2 %	8.6 %	7.6 %	9.0 %	9.4 %	10.0 %
Total taxes	7.3	7.3	8.7	11.1	13.6	14.8	16.3
Net income from continuing operations	18.1	19.9	27.8	30.2	35.0	38.0	41.8
Income from discontinued operations (net of tax)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Net income before minorities	18.1	19.9	27.8	30.2	35.0	38.0	41.8
Minority interest	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Net income	18.0	19.7	27.6	30.1	34.8	37.8	41.7
Margin	4.8 %	5.2 %	6.5 %	5.5 %	6.5 %	6.7 %	7.2 %
Number of shares, average	10.2	10.2	10.1	10.1	10.2	10.2	10.2
EPS	1.77	1.94	2.72	2.96	3.42	3.71	4.09
EPS adj.	1.77	1.94	2.72	2.96	3.42	3.71	4.09
*Adjustments made for: Restructuring costs, value adjustn	ents one-off ear	nings/losses					

Guidance: FY 2023: EBITDA slightly growing to up to EUR 80m

Financial Ratios

2019	2020	2021	2022	2023e	2024e	2025e
57.5 %	54.4 %	59.1 %	71.9 %	63.1 %	63.7 %	63.4 %
-46.3 x	0.5 x	2.0 x	-0.2 x	-72.5 x	0.8 x	2.5 x
18.3 x	25.1 x	41.6 x	24.4 x	11.6 x	14.2 x	21.0 x
28.8 %	27.0 %	24.0 %	26.8 %	28.0 %	28.0 %	28.0 %
42.1 %	39.4 %	36.5 %	35.2 %	32.0 %	30.8 %	30.4 %
219,834	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
	57.5 % -46.3 x 18.3 x 28.8 % 42.1 %	57.5 % 54.4 % -46.3 x 0.5 x 18.3 x 25.1 x 28.8 % 27.0 % 42.1 % 39.4 %	57.5 % 54.4 % 59.1 % -46.3 x 0.5 x 2.0 x 18.3 x 25.1 x 41.6 x 28.8 % 27.0 % 24.0 % 42.1 % 39.4 % 36.5 %	57.5 % 54.4 % 59.1 % 71.9 % -46.3 x 0.5 x 2.0 x -0.2 x 18.3 x 25.1 x 41.6 x 24.4 x 28.8 % 27.0 % 24.0 % 26.8 % 42.1 % 39.4 % 36.5 % 35.2 %	57.5 % 54.4 % 59.1 % 71.9 % 63.1 % -46.3 x 0.5 x 2.0 x -0.2 x -72.5 x 18.3 x 25.1 x 41.6 x 24.4 x 11.6 x 28.8 % 27.0 % 24.0 % 26.8 % 28.0 % 42.1 % 39.4 % 36.5 % 35.2 % 32.0 %	57.5 % 54.4 % 59.1 % 71.9 % 63.1 % 63.7 % -46.3 x 0.5 x 2.0 x -0.2 x -72.5 x 0.8 x 18.3 x 25.1 x 41.6 x 24.4 x 11.6 x 14.2 x 28.8 % 27.0 % 24.0 % 26.8 % 28.0 % 28.0 % 42.1 % 39.4 % 36.5 % 35.2 % 32.0 % 30.8 %

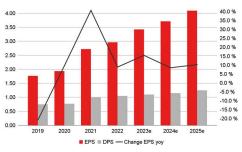
Sales, EBITDA in EUR m



Operating Performance in %



Performance per Share



Source: Warburg Research

6

Source: Warburg Research

Consolidated balance .



450.0 %

400.0 %

300.0 %

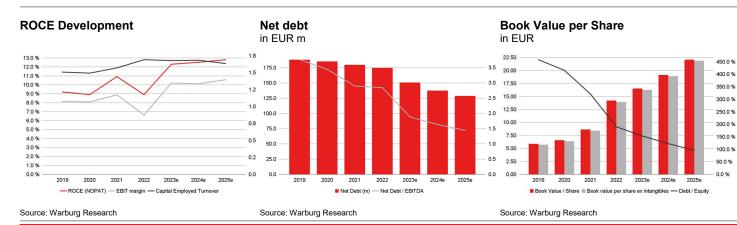
150.0 %

100.0 %

Consolidated balance sheet							
In EUR m	2019	2020	2021	2022	2023e	2024e	2025e
Assets							
Goodwill and other intangible assets	1.5	1.8	2.3	3.0	2.7	2.4	2.2
thereof other intangible assets	1.5	1.8	2.3	3.0	2.7	2.4	2.2
thereof Goodwill	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Property, plant and equipment	175.5	183.6	186.5	187.8	187.5	195.4	202.4
Financial assets	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other long-term assets	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fixed assets	177.0	185.4	188.8	190.7	190.2	197.8	204.5
Inventories	74.6	67.4	86.7	122.4	121.8	125.5	128.2
Accounts receivable	32.5	33.1	40.8	55.7	55.3	57.8	59.7
Liquid assets	9.1	17.1	8.3	9.2	19.5	12.3	5.7
Other short-term assets	49.4	51.2	53.0	44.8	44.5	45.9	46.9
Current assets	165.6	168.9	188.8	232.1	241.1	241.5	240.3
Total Assets	342.6	354.3	377.7	422.9	431.3	439.3	444.9
Liabilities and shareholders' equity							
Subscribed capital	101.8	101.8	101.8	101.8	101.8	101.8	101.8
Capital reserve	-5.0	-4.2	-1.7	5.1	8.0	11.2	14.8
Retained earnings	-30.7	-25.5	-10.3	30.8	48.5	67.9	89.8
Other equity components	-6.3	-5.2	-2.1	6.3	10.0	14.0	18.4
Shareholders' equity	59.8	66.9	87.6	144.0	168.2	194.8	224.8
Minority interest	1.6	1.8	1.9	1.9	2.0	2.1	2.2
Total equity	61.4	68.7	89.6	145.9	170.2	196.9	226.9
Provisions	158.8	168.9	167.3	109.1	108.7	111.3	113.2
thereof provisions for pensions and similar obligations	134.6	141.8	140.0	90.1	89.8	91.9	93.3
Financial liabilities (total)	62.7	60.7	48.0	93.9	80.5	57.9	41.1
Short-term financial liabilities	11.9	12.7	10.5	66.4	23.1	10.8	11.0
Accounts payable	24.1	20.9	32.8	37.4	37.1	38.8	40.0
Other liabilities	35.7	35.1	39.9	36.5	34.8	34.4	23.6
Liabilities	281.2	285.6	288.1	276.9	261.1	242.4	217.9
Total liabilities and shareholders' equity	342.6	354.3	377.7	422.9	431.3	439.3	444.9

Financial Ratios

	2019	2020	2021	2022	2023e	2024e	2025e
Efficiency of Capital Employment							
Operating Assets Turnover	1.5 x	1.4 x	1.5 x	1.7 x	1.6 x	1.7 x	1.7 x
Capital Employed Turnover	1.5 x	1.5 x	1.6 x	1.7 x	1.7 x	1.7 x	1.6 x
ROA	10.2 %	10.6 %	14.6 %	15.8 %	18.3 %	19.1 %	20.4 %
Return on Capital							
ROCE (NOPAT)	9.2 %	8.9 %	10.9 %	8.9 %	12.3 %	12.5 %	12.8 %
ROE	28.4 %	31.1 %	35.7 %	25.9 %	22.3 %	20.8 %	19.9 %
Adj. ROE	28.4 %	31.1 %	35.7 %	25.9 %	22.3 %	20.8 %	19.9 %
Balance sheet quality							
Net Debt	188.3	185.4	179.8	174.8	150.8	137.5	128.8
Net Financial Debt	53.6	43.6	39.8	84.7	61.0	45.6	35.4
Net Gearing	306.8 %	270.0 %	200.7 %	119.8 %	88.6 %	69.8 %	56.7 %
Net Fin. Debt / EBITDA	107.1 %	81.1 %	64.1 %	137.8 %	76.1 %	54.3 %	39.7 %
Book Value / Share	5.9	6.6	8.6	14.2	16.5	19.1	22.1
Book value per share ex intangibles	5.7	6.4	8.4	13.9	16.3	18.9	21.9



COMMENT

Published 05.12.2023

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Consolidated cash flow statement



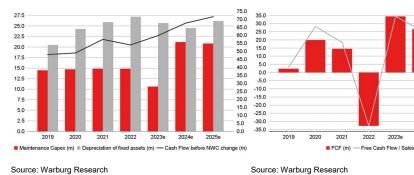
In EUR m	2019	2020	2021	2022	2023e	2024e	2025e
Net income	18.1	19.9	27.8	30.2	35.0	38.0	41.8
Depreciation of fixed assets	20.5	24.3	25.9	27.2	25.7	24.5	26.2
Amortisation of goodwill	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Amortisation of intangible assets	-1.0	-1.2	-1.4	-1.7	-0.4	2.6	1.8
Increase/decrease in long-term provisions	-1.0	-1.2	-1.4	-1.7	-0.4	2.6	1.8
Other non-cash income and expenses	11.4	7.2	6.6	-0.1	0.0	0.0	0.0
Cash Flow before NWC change	48.0	49.0	57.4	54.0	59.9	67.6	71.6
Increase / decrease in inventory	2.4	5.3	-16.5	-37.9	0.6	-3.7	-2.6
Increase / decrease in accounts receivable	-7.1	-5.8	1.8	-19.9	0.6	-3.9	-2.8
Increase / decrease in accounts payable	0.0	0.0	0.0	0.0	0.0	0.1	0.0
Increase / decrease in other working capital positions	0.3	0.2	0.3	-0.3	-1.9	1.3	-9.6
Increase / decrease in working capital (total)	-4.4	-0.3	-14.4	-58.2	-0.7	-6.3	-14.9
Net cash provided by operating activities [1]	43.6	48.7	43.0	-4.2	59.1	61.3	56.7
Investments in intangible assets	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Investments in property, plant and equipment	-41.4	-28.8	-28.5	-29.1	-24.7	-34.7	-34.7
Payments for acquisitions	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Financial investments	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Income from asset disposals	0.1	0.0	0.1	0.6	0.0	0.0	0.0
Net cash provided by investing activities [2]	-41.3	-28.8	-28.5	-28.5	-24.7	-34.7	-34.7
Change in financial liabilities	4.8	-1.9	-12.7	45.9	-13.5	-22.6	-16.8
Dividends paid	-9.3	-7.8	-8.0	-10.3	-10.7	-11.3	-11.8
Purchase of own shares	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Capital measures	0.0	0.0	-1.0	0.0	0.0	0.0	0.0
Other	-1.6	-2.0	-1.9	-1.9	0.0	0.0	0.0
Net cash provided by financing activities [3]	-6.2	-11.7	-23.6	33.6	-24.2	-33.8	-28.6
Change in liquid funds [1]+[2]+[3]	-3.9	8.2	-9.3	0.8	10.2	-7.2	-6.6
Effects of exchange-rate changes on cash	0.1	-0.1	0.3	0.1	0.0	0.0	0.0
Cash and cash equivalent at end of period	9.1	17.1	8.3	9.2	19.5	12.3	5.7

Financial Ratios

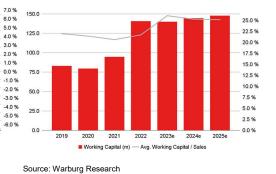
	2019	2020	2021	2022	2023e	2024e	2025e
Cash Flow							
FCF	2.3	19.9	14.5	-32.8	34.4	26.6	22.0
Free Cash Flow / Sales	0.6 %	5.2 %	3.4 %	-6.0 %	6.4 %	4.7 %	3.8 %
Free Cash Flow Potential	25.8	30.4	38.9	43.4	55.7	47.9	52.1
Free Cash Flow / Net Profit	12.8 %	100.9 %	52.7 %	-109.0 %	98.8 %	70.4 %	52.8 %
Interest Received / Avg. Cash	1.1 %	0.1 %	0.0 %	0.5 %	6.3 %	12.0 %	13.4 %
Interest Paid / Avg. Debt	4.5 %	3.5 %	2.7 %	3.5 %	7.9 %	8.6 %	8.6 %
Management of Funds							
Investment ratio	11.0 %	7.6 %	6.8 %	5.4 %	4.6 %	6.2 %	6.0 %
Maint. Capex / Sales	3.9 %	3.9 %	3.5 %	2.7 %	2.0 %	3.8 %	3.6 %
Capex / Dep	212.3 %	124.8 %	116.6 %	113.8 %	97.8 %	128.2 %	124.0 %
Avg. Working Capital / Sales	22.0 %	21.4 %	20.6 %	21.7 %	26.1 %	25.3 %	25.2 %
Trade Debtors / Trade Creditors	135.0 %	158.6 %	124.6 %	149.0 %	149.0 %	149.0 %	149.0 %
Inventory Turnover	1.9 x	2.0 x	2.0 x	2.4 x	2.0 x	2.1 x	2.1 x
Receivables collection period (days)	32	32	35	38	38	38	38
Payables payment period (days)	62	58	70	47	55	54	55
Cash conversion cycle (Days)	161	160	151	145	163	159	158

Free Cash Flow Generation

CAPEX and Cash Flow in EUR m



Working Capital



COMMENT

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Published 05.12.2023

2022 2023e 2024e 2025e



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Company	Disclosure	Link to the historical price targets and rating changes (last 12 months)
Alzchem	5	https://www.mmwarburg.com/disclaimer/disclaimer_en/DE000A2YNT30.htm



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Investment recommendation: expected direction of the share price development of the financial instrument up to the given <u>price target</u> in the opinion of the analyst who covers this financial instrument.

-B-	Buy:	The price of the analysed financial instrument is expected to rise over the next 12 months.	
-H-	Hold:	The price of the analysed financial instrument is expected to remain mostly flat over the next 12 mon	
-S-	Sell:	The price of the analysed financial instrument is expected to fall over the next 12 months.	
"_"	Rating suspended:	The available information currently does not permit an evaluation of the company.	

WARBURG RESEARCH GMBH - ANALYSED RESEARCH UNIVERSE BY RATING

Rating	Number of stocks	% of Universe
Buy	155	73
Hold	46	22
Sell	5	2
Rating suspended	7	3
Total	213	100

WARBURG RESEARCH GMBH - ANALYSED RESEARCH UNIVERSE BY RATING ...

... taking into account only those companies which were provided with major investment services in the last twelve months.

Rating	Number of stocks	% of Universe
Buy	43	81
Hold	7	13
Sell	0	0
Rating suspended	3	6
Total	53	100

PRICE AND RATING HISTORY ALZCHEM AS OF 05.12.2023



Markings in the chart show rating changes by Warburg Research GmbH in the last 12 months. Every marking details the date and closing price on the day of the rating change.



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MACRO RESEARCH

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United Kingdom

Austria, Poland

Rico Müller

Sales Trading

Sales Trading

Bastian Quast

Carsten Klude

Macro Research

United Kingdom, Ireland

United Kinadom

INSTITUTIONAL EQUITY SALES

+49 40 309537-280 mheider@warburg-research.com +49 40 309537-270 hrueschmeier@warburg-research.com +49 40 309537-168 saugustin@warburg-research.com +49 40 309537-155 jbauer@warburg-research.com +49 40 309537-175 ccohrs@warburg-research.com +49 40 309537-167 cehmann@warburg-research.com +49 40 309537-120 fellmann@warburg-research.com +49 40 309537-258 jfrey@warburg-research.com +49 40 309537-185 mfuhrberg@warburg-research.com +49 40 309537-240 fhoelscher@warburg-research.com +49 40 309537-260 pkaiser@warburg-research.com +49 40 309537-257 tkleibauer@warburg-research.com

+49 40 3282-2678

mrode@mmwarburg.com

+49 40 3282-2660 mniemann@mmwarburg.com +49 40 3282-2665 tbeckmann@mmwarburg.com +49 69 5050-7411 lbogdanova@mmwarburg.com +49 69 5050-7415 jbuchmueller@mmwarburg.com +49 40 3282-2696 mfritsch@mmwarburg.com +49 69 5050-7413 mmartin@mmwarburg.com

> +49 40 3282-2634 omerckel@mmwarburg.com +49 40 3282-2685 rmueller@mmwarburg.com +49 40 3282-2701 bquast@mmwarburg.com

> > +49 40 3282-2572

cklude@mmwarburg.com

Software, IT Andreas Pläsier Banks, Financial Services Malte Schaumann Technology Oliver Schwarz Chemicals, Agriculture Simon Stippig Real Estate, Telco Marc-René Tonn Automobiles, Car Suppliers Robert-Jan van der Horst Technology Andreas Wolf Software, IT

Hannes Müller

+49 40 309537-255 hmueller@warburg-research.com +49 40 309537-246 aplaesier@warburg-research.com +49 40 309537-170 mschaumann@warburg-research.com +49 40 309537-250 oschwarz@warburg-research.com +49 40 309537-265 sstippig@warburg-research.com +49 40 309537-259 mtonn@warburg-research.com +49 40 309537-290 rvanderhorst@warburg-research.com +49 40 309537-140 awolf@warburg-research.com

Rudolf Alexander Michaelis Germany Roman Alexander Niklas Switzerland

Antonia Möller Roadshow/Marketing Charlotte Wernicke Roadshow/Marketing Juliane Niemann

Roadshow/Marketing

DESIGNATED SPONSORING

Marcel Magiera Designated Sponsoring Sebastian Schulz Designated Sponsoring Jörg Treptow Designated Sponsoring

Dr. Christian Jasperneite Investment Strategy +49 40 3282-2649 rmichaelis@mmwarburg.com +49 69 5050-7412 rniklas@mmwarburg.com

+49 69 5050-7417 amoeller@mmwarburg.com +49 40 3282-2669 cwernicke@mmwarburg.com +49 40 3282-2694 jniemann@mmwarburg.com

+49 40 3282-2662 mmagiera@mmwarburg.com +49 40 3282-2631 sschulz@mmwarburg.com +49 40 3282-2658 itreptow@mmwarburg.com

+49 40 3282-2439 cjasperneite@mmwarburg.com

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