Chemicals / Chemicals / Commodity Chemicals

LSEG Stock Reports Plus

DETAILED STOCK REPORT

Report Date: 2024-Sep-06

Score Averages

Strong

Buv

Last Close 273.55 (USD)	Avg Daily Vol 846,444	52-Week High 307.71	Trailing PE 23.7	Annual Div 7.08	ROE 17.6%	LTG Forecast 5.3%	1-Mo Return -1.8%
2024 September 05 NEW YORK Exchange	Market Cap 62.0B	52-Week Low 212.24	Forward PE 20.4	Dividend Yield 2.6%	Annual Rev 12.1B	Inst Own 89.3%	3-Mo Return 1.2%

AVERAGE SCORE **AVERAGE SCORE** NEGATIVE OUTLOOK: APD's current score of 3 places it among the bottom quartile of stocks

Average Score Trend (4-Week Moving Avg)

2024-09

9

2023-09

	Chemicals Group: 5.8 Chemicals Sector: 5.8				•	Market Cap: 6.8 &P 500 Index: 6.6
Peers	-6M	-3M	-1M	-1W	Current	1Y Trend
DOW	8	8	7	7	8	
LYB	6	7	8	9	8	
SHW	8	8	6	6	8	
LIN	8	7	8	7	7	
APD	4	4	4	4	3	

HIGHLIGHTS

2021-09

scored.

Positive

Neutral

Negative

The score for Air Products and Chemicals dropped to its 3-year low of 3 this week.

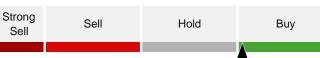
2022-09

The recent change in the Average Score was primarily due to a decline in the Insider Trading component score.

I/B/E/S MEAN

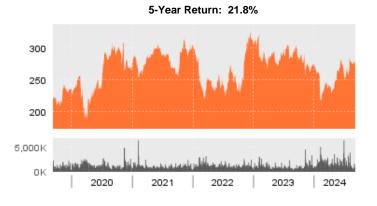
Buy 25 Analysts

Mean recommendation from all analysts covering the company on a standardized 5-point scale.



PRICE AND VOLUME CHARTS





BUSINESS SUMMARY

Air Products and Chemicals, Inc. is an industrial gases company. The Company provides essential industrial gases, related equipment, and applications to customers in various industries, including refining, chemicals, metals, electronics, manufacturing, medical, and food. Its segments include Americas, Asia, Europe, and Middle East and India, and Corporate and other. The Company also designs and manufactures equipment for air separation, hydrocarbon recovery and purification, natural gas liquefaction, and liquid helium and liquid hydrogen transport and storage. The Company distributes gases through its on-site or merchant supply mode. The Company's industries include aerospace, analytical labs & research/science, automotive, beverages, bioenergy, biotechnology, cement and lime, chemicals, electronics, food, glass and frit, hydrogen energy, hydrogen for mobility, lifting, liquefied natural gas (LNG), medical, metals and materials processing, metals production, medical and others.

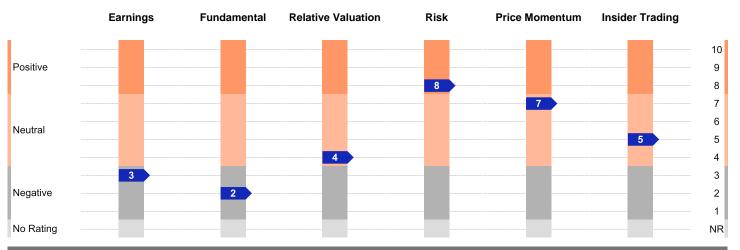
Report Date: 2024-Sep-06

INDICATOR COMPONENTS

Chemicals / Chemicals / Commodity Chemicals

AVERAGE SCORE

The **AVERAGE SCORE** combines the quantitative analysis of six widely-used investment decision making tools: Earnings, Fundamental, Relative Valuation, Risk, Price Momentum and Insider Trading. A simple average of the underlying component ratings is normally distributed to rank stocks on a 1-10 scale (10 being awarded to the most favorable). These factors may be evaluated differently using alternative methodologies and the importance of individual factors varies across industries, market capitalization and investment styles. Additional criteria should always be used to evaluate a stock.



OPTIMIZED SCORE



Historically, companies with an Optimized Score of 1 have tended to significantly underperform the market over the following 12-month period.



As an alternative approach to equally weighting each of the six factors, independent research firm, Verus Analytics, conducted a backtest to empirically determine an optimal factor blend. Results and weighting vary across four different market capitalization categories. For large/mid cap stocks, Fundamental and Earnings historically provided the most explanatory power among the factors and are weighted heavily in the Optimized Score. Among the small/micro cap universe, Insider Trading joined Fundamental and Earnings as the most significant factors to explain returns.

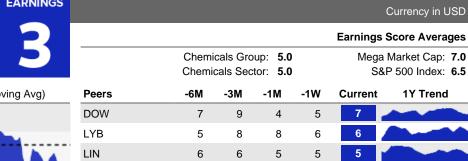
PEER	RANALYSIS										Curre	ncy in USD
			PRICE	MOMENTU	JM		VALUA	TION	FUNDAM	ENTAL	ANALYST	s
Average Score	Ticker	Price (2024-09-05)	1-Mo Return	3-Mo Return	1-Yr Return	Market Cap	Trailing PE	Forward PE	Dividend Yield	Net Margin	LTG I/B/E/S Forecast Mean	# of Analysts
7	LIN	465.52	5.0%	7.0%	22.0%	229.9B	35.4	28.6	1.2%	19.5%	9.6% Buy	29
8	SHW	360.08	6.2%	16.8%	33.6%	93.2B	36.7	29.8	0.79%	10.9%	11.3% Buy	29
3	APD	273.55	-1.8%	1.2%	-6.5%	62.0B	23.7	20.4	2.6%	21.2%	5.3% Buy	25
8	DOW	51.31	0.59%	-7.9%	-5.3%	37.6B	31.7	16.5	5.5%	2.7%	23.5% Hold	24
8	LYB	94.23	1.8%	-0.87%	-4.5%	32.1B	13.3	10.9	5.7%	5.6%	7.3% Hold	25
8	PPG	125.28	4.9%	-6.0%	-8.2%	30.3B	20.5	14.6	2.2%	8.0%	9.1% Buy	27
9	WLK	136.44	2.2%	-12.8%	6.8%	18.7B	65.6	16.7	1.5%	2.3%	Hold	20
8	RPM	114.05	-0.56%	3.1%	17.7%	15.0B	25.0	20.9	1.6%	8.0%	12.1% Hold	17
9	AXTA	34.99	2.7%	-3.7%	28.5%	8.0B	25.9	16.2		5.7%	19.6% Buy	20
10	NEU	540.21	1.2%	-0.60%	18.7%	5.5B	12.6		1.9%	15.1%		
5	OLN	42.27	2.1%	-16.9%	-17.3%	5.1B	18.6	20.7	1.9%	4.3%	7.1% Hold	19
7.5	Average	203.45	2.2%	-1.9%	7.8%	48.8B	28.1	19.5	2.5%	9.4%	11.6% Buy	23.5

PEER COM	PANIES		
AXTA	Axalta Coating Systems	OLN	Olin Corp
DOW	Dow Inc	PPG	PPG Industries Inc
LIN	Linde	RPM	RPM International Inc
LYB	LyondellBasell Industries	SHW	Sherwin-Williams Co
NEU	NewMarket Corp	WLK	Westlake Corp

Report Date: 2024-Sep-06

Chemicals / Chemicals / Commodity Chemicals

EARNINGS NEGATIVE OUTLOOK: Weak earnings with recent analyst downgrades or a history of missing consensus estimates. Earnings Score Trend (4-Week Moving Avg) Peer



8

5

8

Positive Negative 2021-09 2022-09 2023-09 2024-09

EARNINGS INDICATORS

Recommendation Changes Estimate Revisions Earnings Surprises (33.3% weight) (33.3% weight) (33.3% weight) 10 10 LIN Positive 9 LYB 8 8 7 DOW DOW 6 6 6 Neutral APD SHW LYB 5 SHW APD 4 3 APD LIN Negative 2 2 LIN 'I YB SHW 1 No Rating NR NR DOW

SHW

APD

Last 4 Quarters	
# Positive Surprises (>2%)	2
# Negative Surprises (<-2%)	1
# In-Line Surprises (within 2%)	1
Avg Surprise	1.5%

Last 4 Weeks	
# Up Revisions	4
# Down Revisions	10
Avg Up Revisions	16.0%
Avg Down Revisions	-40.0%

Last 120 Days	
# Broker Upgrades	0
# Broker Downgrades	1

5

3

4

2

HIGHLIGHTS

- Air Products and Chemicals currently has an Earnings Rating of 3, with two of three components rated as a bearish 4 or less. The average Earnings Rating for its Commodity Chemicals industry is 5.0 and the S&P 500 index average is 6.5.
- Over the past 90 days, the consensus price target for APD has increased notably from 268.00 to 298.00, a gain of 11.2%.
- Over the past 4 quarters, the company has reported 2 positive, 1 negative, and 1 in-line surprises. The average surprise for this time period has been 1.5%. Most recently on 2024-08-01, the company reported quarterly earnings of 3.20 per share, a positive surprise of 5.5% above the consensus of 3.03.

PRICE TARGET

The chart indicates where analysts predict the stock price will be within the next 12 months, as compared to the current price.



12-Month Price Target				
Mean (USD)	298.00			
High	355.00			
Low	210.00			
Target vs. Current	8.9%			
# of Analysts	21			



DETAILED STOCK REPORT

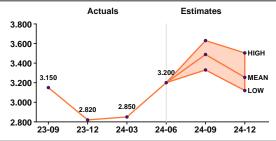
Report Date: 2024-Sep-06

EARNINGS PER SHARE

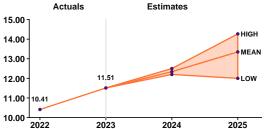
Chemicals / Chemicals / Commodity Chemicals

Earnings per share (EPS) is calculated by dividing a company's earnings by the number of shares outstanding. Analysts tend to interpret a pattern of increasing earnings as a sign of strength and flat or falling earnings as a sign of weakness.

The charts provide a comparison between a company's actual and estimated EPS, including the high and low forecasts.



Quarterly	24-09	24-12
Mean	3.488	3.254
High	3.630	3.504
Low	3.330	3.120
# of Analysts	16	8



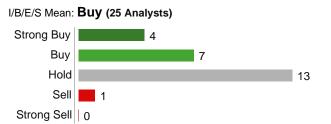
Annual	2024	2025
Mean	12.340	13.350
High	12.500	14.270
Low	12.200	12.000
# of Analysts	19	19

MEAN ESTIMATE TREND

	Q 24-09	Q 24-12	Y 2024	Y 2025	Price Target
Current	3.488	3.254	12.340	13.350	298.00
30 Days Ago	3.528	3.203	12.240	13.350	283.00
90 Days Ago	3.556	3.206	12.270	13.420	268.00
% Change (90 Days)	-1.9%	1.5%	0.60%	-0.50%	11.2%

Current Fiscal Year End: 24-09 Next Expected Report Date: 2024-11-05

ANALYST RECOMMENDATIONS



EARNINGS SURPRISES

Comparing a company's actual earnings to the mean expectation of analysts results in a difference referred to as a 'positive' or 'negative' surprise. Research has shown that when a company reports a surprise, it is often followed by more of the same surprise type.

Surprise Summary (Last 12 Quarters)

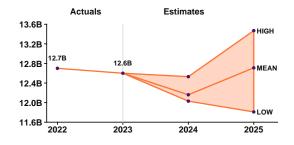
Surprise Type	Amount	Percent
Positive Quarters (> 2%)	5	41.7%
Negative Quarters (< -2%)	2	16.7%
In-Line Quarters (within 2%)	5	41.7%

Surprise Detail (Last 6 Periods)

Surprise Type	Announce Date	Period End Date	Actual EPS	Mean EPS	Surprise (%)
Positive	2024-08-01	2024-06-30	3.200	3.033	5.5%
Positive	2024-04-30	2024-03-31	2.850	2.695	5.8%
Negative	2024-02-05	2023-12-31	2.820	3.005	-6.2%
In-Line	2023-11-07	2023-09-30	3.150	3.117	1.1%
Positive	2023-08-03	2023-06-30	2.980	2.912	2.3%
Positive	2023-05-09	2023-03-31	2.740	2.645	3.6%

ANNUAL REVENUE

A pattern of increasing sales in conjunction with a rising EPS may influence a buy recommendation, while flat or falling sales and faltering earnings may explain a sell recommendation. A rising EPS with flat or falling sales may result from increased cost efficiency and margins, rather than market expansion. This chart shows the sales forecast trend of all analysts and the highest and lowest projections for the current and next fiscal year.



	2024	2025
Mean	12.2B	12.7B
High	12.5B	13.5B
Low	12.0B	11.8B
Forecasted Growth	-3.5%	0.90%
# of Analysts	16	16



DETAILED STOCK REPORT

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FUNDAMENTAL

FUND-AMENTAL

NEGATIVE OUTLOOK: Weak fundamentals such as low profit margins, high debt levels, or falling dividends.

Chemicals / Chemicals / Commodity Chemicals

Fundamental Score Averages

Chemicals Group: 5.3 Chemicals Sector: 5.3 Mega Market Cap: 6.2 S&P 500 Index: 6.1



Peers	Q3 2023	Q4 2023	Q1 2024	Q2 2024	Current	3Y Trend
LIN	8	8	8	8	9	
SHW	7	6	6	6	8	
DOW	4	4	5	5	6	HIIII
LYB	6	5	5	5	6	
APD	3	3	3	3	2	

FUNDAMENTAL INDICATORS Profitability Earnings Quality Dividend Debt (25% weight) (25% weight) (25% weight) (25% weight) 10 10 LIN I YR Positive SHW 9 DOW APD 8 8 7 LIN SHW DOW 6 Neutral LYB LYB APD LIN 5 5 DOW LIN SHW 4 3 3 SHW APD Negative DOW 2 2 2 LYB APD 1 No Rating NR

Revenue Growth	6.70/	Current Ratio	1.2	Ones Cook Viold	43.6%	Dividend Growth	4 50/
Revenue Growth	-0.7%	Current Ratio	1.3	Oper. Cash Yield	43.6%	Dividend Growth	4.5%
For year over year ending 2024-06		For interim period ending 2024-06		For latest 12 months ending		For year over year ending 2024-06	
Gross Margin	31.7%	Debt-to-Capital	37.6%	Accruals	24.1%	Dividend Payout	61.2%
For latest 12 months ending 2024-06		For annual period ending 2023-09		For latest 12 months ending 2023-09		For latest 12 months ending 2024-06	
Return On Equity	17.6%	Interest Funding	10.9%	Days Sales In Inv.	28.5	Dividend Coverage	2.4
For interim period ending 2024-06		For interim period ending 2023-12		For annual period ending 2023-09		For annual period ending 2023-09	
Net Margin	21.2%	Interest Coverage	6.1	Days Sales In Rec.	61.9	Current Div. Yield	2.6%
For latest 12 months ending 2024-06		For interim period ending 2024-06		For annual period ending 2023-09		For latest 12 months ending 2024-09	

HIGHLIGHTS

- Air Products and Chemicals currently has a Fundamental Rating of 2, which is significantly more bearish than the Commodity Chemicals industry average of 5.8.
- The net margin of 21.2% for APD is the highest within its Commodity Chemicals industry.
- The company's interest coverage has been higher than its industry average for each of the past five years.
- The company's accruals ratio has been higher than its industry average for each of the past five years.
- Of the 30 firms within the Commodity Chemicals industry, Air Products and Chemicals is among 20 companies that pay a dividend. The stock's dividend yield is currently 2.6%.



Report Date: 2024-Sep-06

RELATIVE VALUATION

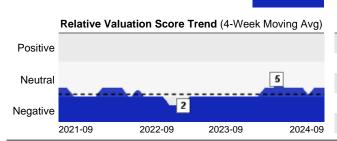
NEUTRAL OUTLOOK: Multiples relatively in-line with the market.

Chemicals / Chemicals / Commodity Chemicals

RELATIVE VALUATION

Relative Valuation Score Averages

Chemicals Group: **5.7** Mega Market Cap: **4.1** Chemicals Sector: **5.7** S&P 500 Index: **4.6**



	Official	cais occ	,toi. 3.7	Odi Soo index. 4.			
Peers	-6M	-3M	-1 M	-1W	Current	1Y Trend	
LYB	7	7	7	8	8		
DOW	4	4	5	5	5		
APD	4	4	4	4	4		
LIN	2	2	2	2	2		
SHW	3	3	3	2	2		

RELATIVE VALUATION INDICATORS

Price to Sales Trailing PE Forward PE (33.3% weight) (33.3% weight) (33.3% weight) 10 Positive 9 LYB 8 8 7 LYB LYB 6 Neutral DOW APD APD 5 5 LIN DOW 4 3 3 APD DOW LIN Negative 2 SHW SHW SHW LIN 1 No Rating NR

Price to Sales	5.1	Trailing PE	23.7	Forward PE	20.4
5-Yr Average	5.6	5-Yr Average	28.5	5-Yr Average	24.8
Rel. to 5-Yr Avg.	9% Discount	Rel. to 5-Yr Avg.	17% Discount	Rel. to 5-Yr Avg.	18% Discount
S&P 500 Index	2.9	S&P 500 Index	1.6	S&P 500 Index	21.6
Rel. to S&P 500	78% Premium	Rel. to S&P 500	>100% Premium	Rel. to S&P 500	6% Discount

HIGHLIGHTS

- Air Products and Chemicals currently has a Relative Valuation Rating of 4 while the S&P 500 index has an average rating of 4.6.
- APD is currently valued at a premium to the S&P 500 index based on both Trailing P/E and Forward PEG.
- APD's 3.9 Forward PEG is currently at the high end of its 5-year range (lowest 1.6 to highest 3.9).
- APD's Trailing P/E of 23.7 represents a 17% Discount to its 5-year average of 28.5.
- APD's Forward P/E of 20.4 represents a 18% Discount to its 5-year average of 24.8.



Chemicals / Chemicals / Commodity Chemicals

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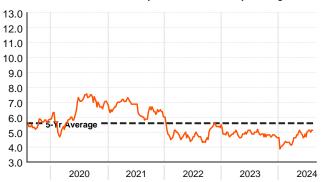
PRICE TO SALES

The most recent week's close price divided by the revenue per share.

Price to Sales: 5.1 5-Year Average: 5.6

S&P 500 Index Average: 2.9

Commodity Chemicals Industry Average: 2.3



TRAILING PE

The most recent week's close price divided by the sum of the four most recently reported quarterly earnings.

Trailing PE: 23.7

5-Year Average: 28.5 S&P 500 Index Average: 1.6

Commodity Chemicals Industry Average: 31.8



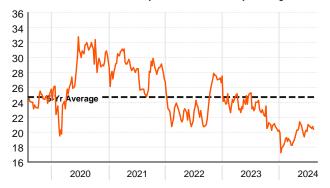
FORWARD PE

The most recent week's close price divided by the sum of the four upcoming quarterly consensus estimates.

Forward PE: 20.4 5-Year Average: 24.8

S&P 500 Index Average: 21.6

Commodity Chemicals Industry Average: 22.8



FORWARD PEG

The Forward P/E divided by the five-year forecasted growth rate.

Forward PEG: 3.9

5-Year Average: 2.5

S&P 500 Index Average: 1.8

Commodity Chemicals Industry Average: 1.6



2022-09

2021-09

2023-09

2024-09

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RISK **RISK Risk Score Averages** POSITIVE OUTLOOK: Consistent return patterns (low volatility). Chemicals Group: 6.4 Mega Market Cap: 8.9 Chemicals Sector: 6.4 S&P 500 Index: 8.8 Risk Score Trend (4-Week Moving Avg) -1W Peers -6M -3M -1M Current 1Y Trend DOW 10 10 10 10 10 Positive 7 LIN 10 10 10 10 10 Neutral LYB 10 10 10 10 10 SHW 10 10 10 10 10 Negative APD 8 10 8 8 8

RISK INDICATORS Magnitude of Returns Volatility Correlation Beta (1-year) (25% weight) (25% weight) (25% weight) (25% weight) LIN 10 10 10 10 DOW DOW DOW LIN Positive LYB LIN LIN 9 LYB SHW LYB SHW 8 8 SHW APD 7 APD 6 LYB Neutral APD DOW 5 SHW 4 4 3 Negative 2 1 No Rating NR

Daily Returns (Las	st 90 Days)	Standard Deviation		Beta vs. S&P 500	0.48	Correlation vs. S&P 5	00
Best	9.0%	Last 90 Days	1.88	Positive Days Only	0.44	Last 90 Days	-5%
Worst	-5.5%	Last 60 Months	7.51	Negative Days Only	0.15	Last 60 Months	56%
Monthly Returns (Last 60 Months)		Intra-Day Swing (Last 90 Days)		Beta vs. Group	0.45	Correlation vs. Group	
Best	23.9%	Average	1.9%	Positive Days Only	0.31	Last 90 Days	16%
Worst	-16.2%	Largest	6.0%	Negative Days Only	0.52	Last 60 Months	46%

HIGHLIGHTS

- Air Products and Chemicals currently has a Risk Rating of 8 while the S&P 500 index has an average rating of 8.8.
- On days when the market is up, APD shares tend to lag the S&P 500 index. However, on days when the market is down, the shares generally decrease less than the index.
- In the short term, APD has shown low correlation (>= -0.1 and < 0.2) with the S&P 500 index. The stock has, however, shown high correlation (>= 0.4) with the market in the long term.
- Over the last 90 days, APD shares have been more volatile than the overall market, as the stock's daily price fluctuations have exceeded that of 67% of S&P 500 index firms.

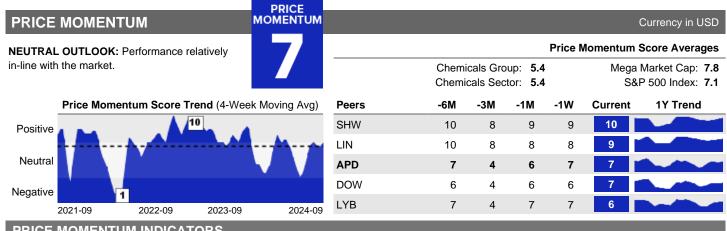
RISK ANALYSIS									
		Las	t 90 Da	ays		Last 60	Last 60 Months		
Peers	Best Daily Return	Worst Daily Return	Best Monthly Return	Worst Monthly Return					
APD	9.0%	-5.5%	29	34	6.0%	23.9%	-16.2%		
DOW	2.9%	-3.1%	32	29	5.2%	25.5%	-27.6%		
LIN	1.9%	-2.3%	35	28	3.6%	16.4%	-11.4%		
LYB	3.2%	-3.8%	33	30	4.3%	24.3%	-30.6%		
SHW	6.9%	-4.0%	34	29	4.5%	17.6%	-18.6%		
S&P 500	2.3%	-3.0%	36	25	2.9%	12.7%	-12.5%		

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PRICE MOMENTUM INDICATORS

Relative Strength Seasonality (50% weight) (50% weight) 10 LIN Positive 9 9 SHW SHW 8 7 APD DOW 6 6 DOW Neutral LYB LIN 5 5 APD LYB 4 3 Negative 2 1 No Rating NR

Relative Strength Indicator (Scale from 1 to 100)

	APD	Industry Avg
Last 10 Days	44	57
Last 50 Days	53	50
Last 200 Days	50	49

Average Monthly Return (Last 10 Years)

	Sep	Oct	Nov
Company Avg	-2.6%	1.7%	5.0%
Industry Avg	-2.3%	1.1%	3.0%
Industry Rank	46 of 128	33 of 128	93 of 128

PRICE PERFORMANCE

Daily close prices are used to calculate the APD performance of the stock as compared to a S&P 500 relevant index over five time periods. -1.3% 1-Week -1.6% -1.8% 1-Month 6.1% 1.2% 3-Month 2.8% -0.1% YTD 15.4% -6.5% 1-Year 22.4%

	APD	S&P 500
Close Price (2024-09-05)	273.55	5,503
52-Week High	307.71	5,667
52-Week Low	212.24	4,117

- On 2024-09-05, APD closed at 273.55, 11.1% below its 52week high and 28.9% above its 52-week low.
- APD shares are currently trading 2.0% above their 50-day moving average of 268.16, and 6.7% above their 200-day moving average of 256.43.
- The S&P 500 index is currently 2.9% below its 52-week high and 33.7% above its 52-week low.

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INSIDER TRADING **INSIDER TRADING** Currency in USD **Insider Trading Score Averages NEUTRAL OUTLOOK:** Mixed transactions by insiders or low volume of trades. Chemicals Group: 5.5 Mega Market Cap: 3.4 Chemicals Sector: 5.5 S&P 500 Index: 3.7 Insider Trading Score Trend (4-Week Moving Avg) Peers -6M -3M -1M -1W Current 1Y Trend 6 LIN 4 4 8 6 Positive SHW 2 4 3 4 6 Neutral 5 APD 5 6 6 3 5 DOW 9 8 8 Negative LYB 3 4 5

2024-09

INSIDER TRADING INDICATORS

2021-09

2022-09

2023-09

Short-Term Insider Long-Term Insider (70% weight) (30% weight) 10 Positive 9 8 7 LIN 6 DOW Neutral LYB LIN 5 SHW SHW 4 3 Negative 2 LYB 1 No Rating NR

	Most Recent Buys and Sells (Last 90 Days)					6 Months)
Insider Name	Role	Tran Date	Tran Type	Shares	Total Shares Acquired	165,235
					Total Shares Disposed	122,568
	There are no insider tra	Net Shares	42,667			
					Sector Average	10 103

HIGHLIGHTS

- Air Products and Chemicals currently has an Insider Trading Rating of 5, while the Commodity Chemicals industry average is 5.67.
- Executives at Air Products and Chemicals have not purchased or sold any shares thus far this quarter. Over the past five years, the average purchase and sell totals for Q3 have been \$0 and \$0 respectively.

TOP INSTITUTIONAL HOLDERS							
Institution Name	Inst. Type	% O/S	Shares Held	Reported Date			
The Vanguard Group Inc	Inv Mgmt	9.4%	21.0M	2024-06-30			
Capital Research Global	Inv Mgmt	6.7%	14.9M	2024-06-30			
State Farm Insurance	Inv Mgmt	5.5%	12.3M	2024-06-30			
BlackRock Institutional	Inv Mgmt	4.7%	10.4M	2024-06-30			
State Street Global	Inv Mgmt	4.5%	9.98M	2024-06-30			
Updated daily as of 2024-09-05							

MONTHLY BUYS AND SELLS BUYS \$ Market Value (Thousands) 5520 2760 **Excludes** 0 derivative and option 2760 exercises 5520

TOP EXECUTIVE HOLDERS						
Insider Name	Role	Direct Shares	Value	Reported Date		
Ghasemi, Seifollah	CEO	0.72M	199M	2024-06-28		
Serhan, Samir	CO	43,342	12.0M	2023-12-04		
Major, Sean John D	GC	16,014	4.42M	2023-12-04		
Schaeffer, Melissa N	CFO	9,730	2.69M	2023-12-04		
Pellicciotti, William J	0	2,899	0.80M	2023-11-30		
		Updated monthly as of 2024-08-18				

Chemicals / Chemicals / Commodity Chemicals

LSEG Stock Reports Plus

DETAILED STOCK REPORT

Report Date: 2024-Sep-06

DETAILED STOCK REPORT TIPS

The Stock Report from LSEG is a comprehensive, company-specific analysis that includes a proprietary Stock Rating along with underlying component indicators and supportive data elements. The report is updated daily, although some of the data elements and the ratings are updated weekly.

Average Score

The Stock Reports Plus Average Score combines a quantitative analysis of six widely-used investment decision making tools - Earnings, Fundamental, Relative Valuation, Risk, Price Momentum, and Insider Trading. First, a simple average of the six underlying component ratings is calculated. Then, a normal distribution is used to rank each stock across the market on a scale of 1 to 10, with 10 being most favorable. A score of 8 to 10 is considered positive, 4 to 7 is neutral, and 1 to 3 is negative. These six factors may be evaluated differently using alternative methodologies, and the importance of individual factors varies across groups, market capitalization and investment styles. Additional criteria should always be used to evaluate a stock.

A company must have sufficient data available for at least four of the six component indicators in order to receive an overall Average Score. Approximately 85% of the stocks within the coverage universe meet the criteria to generate a score.

Optimized Score

As an alternative to the Average Score, the Stock Report includes an Optimized Score generated by independent research firm Verus Analytics. It uses the same six component ratings, but rather than equally weighting each of the factors, the weighting varies by market capitalization of the underlying security based on backtesting research. These scores are also updated weekly and distributed normally on a 1 to 10 scale, with 10 being best. The variable size is assigned monthly by ranking the market capitalization and assigning the appropriate category as follows:

Large - Top 5.55% Mid - Next 13.87% Small - Next 34.68% Micro - Remaining 45.9%

Indicator Components

The six indicators that comprise the stock rating are displayed. Like the stock rating, the component rating scale is 1 to 10, with 10 being best. A company will receive an 'NR' for No Rating if the required data elements or criteria are not met. A detailed section for each component is included in the report.

Indicator Trends

Within each component section, historical score trends are displayed, typically using a 4-week moving average over a timeframe of the past three years. The dotted orange line indicates the average of the scores over those three years. The most recent occurrences of the best and worst scores are also displayed on the chart in grey boxes to put the current score into historical context.

Next to the trend chart for the company, current score averages are included, along with peer company comparisons of values from 6 months ago, 3 months ago, 1 month ago, the most recent value from 1 week ago, and the current score. The four closest industry peers are presented based on similar market capitalization.

Peer Analysis

- The Refinitiv Business Classification (TRBC) schema is used for industry comparisons. It is designed to track and display the primary business of a corporation by grouping together correlated companies that offer products and services into similar end markets. The system includes 10 Economic Sectors, 28 Business Sectors, 54 Industry Groups, and 136 Industries.
- The Peer Analysis section of the report compares the company to its ten closest peers. The peers are selected from the industry based on similar market capitalization. The peer listing may have fewer than ten companies if there are fewer than ten companies classified within that industry.

Highlights

The automated text-generation system from LSEG creates highlights summarizing the most noteworthy data. The bullets will vary by company and will change from week to week as different criteria are met.

Earnings

The Earnings Rating is based on a combination of three factors: earnings surprises, estimate revisions, and recommendation changes. Each factor is equally weighted. Then, equal deciles are used to rank each stock across the market on a scale of 1 to 10, with 10 being most favorable. A stock needs to have at least two of the three earnings factors in order to receive a score.

- Earnings Surprises The number of positive and negative surprises within the last 4 quarters.
- Estimate Revisions The number of up and down revisions and the average percentage change of those revisions within a 4 week period.
- Recommendation Changes The number of broker upgrades and downgrades in the last 120 days.

Price Target

The price target is based on the predictions of analysts covering the stock and shows the high, low and mean price expected within the next 12 months.

Earnings Per Share

The quarterly and annual earnings per share are presented when available, along with the mean, high and low. Quarterly data is displayed for the past 4 quarters (actual) and the next 2 quarters (estimated). Annual data is displayed for the past 2 years (actual) and the next 2 years (estimated).

Mean Estimate Trend

The mean estimates show how the consensus has changed over the past 30 days and 90 days for the upcoming two quarters and two years. The percentage change is calculated for the company as a means for comparison by measuring the difference between the current consensus estimate and that of 90 days ago.

Analyst Recommendations

The I/B/E/S Mean is the average recommendation of all analysts covering the stock, as provided by I/B/E/S, the Institutional Brokers Estimate System, from LSEG. The recommendations are presented on a five-point standardized scale: strong buy, buy, hold, sell, and strong sell.

Earnings Surprises

- The surprise summary includes the total number of quarters (and percentage) in the past 12 quarters in which earnings surprises were positive, negative, or inline. In order to be recognized as a positive or negative surprise, the percent must be greater than 2% above or 2% below the consensus, respectively.
- The surprise detail section includes a listing of the company's quarterly earnings reported for the most recent 6 quarters. The consensus analyst estimate is provided to determine if the actual earnings report represented a positive surprise, negative surprise, or in-line result.

Fundamental

The Fundamental Rating is based on a combination of four factors: profitability, debt, earnings quality, and dividend. Companies that do not pay a dividend are not penalized. Each factor is equally weighted. Then, equal deciles are used to rank each stock across the market on a scale of 1 to 10, with 10 being most favorable. A stock needs to have at least two of the four fundamental factors present for a given fiscal quarter in order to receive a score.

Profitability

- Revenue Growth: (Net Sales Previous Net Sales) / Previous Net Sales
- Gross Margin: Gross Profit / Net Sales
- Return on Equity: Net Income / Total Equity
- Net Margin: Net Profit / Net Sales

Debt

- Current Ratio: Current Assets / Current Liabilities
- Debt-to-Capital: Total Debt / Total Capital
- Interest Funding: (Interest Expense on Debt + Preferred Cash Dividends) / Funds from Operations
- Interest Coverage: Earnings before Interest and Taxes / (Interest Expense on Debt + Preferred Cash Dividends)

Earnings Quality

- Operating Cash Yield: (Operating Cash Flow Net Income) / Net Income
- Accruals: (Net Income Operating Cash Flow Investing Cash Flow) / Average Net Operating Assets
- Days Sales in Inventory: 365 / (Cost of Goods Sold / Inventory)
- Days Sales in Receivables: 365 / (Net Sales / Receivables)

Dividend

The company must have a current dividend yield.

- Dividend Growth Rate: (Dividends per Share Previous Dividends per Share) / Previous Dividends per Share
- Dividend Funding: Dividends / Operating Cash Flow
- Dividend Coverage: (Pre-Tax Income + Interest Expense) / (Interest Expense + Dividends)
- Dividend Yield: Annual Dividends per Share / Current Market Price per Share

Indicator Trend

The fundamental indicator trend displays quarterly scores over the past three years. The best and worst scores over that timeframe can be easily determined from the values shown on the chart for each quarter.



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Relative Valuation

The Relative Valuation Rating is based on a combination of three factors: Price to Sales, Trailing P/E, and Forward P/E. Each factor is equally weighted. After the individual factors are combined, equal deciles are used to rank each stock across the market on a scale of 1 to 10, with 10 being most favorable. These common valuation metrics are evaluated against the overall market, the index, and the company's own historic 5-year averages. A stock needs to have at least one of the three relative valuation factors in order to receive a score.

- Price to Sales: Close Price / (Sales for 4 Quarters / Shares Outstanding)
- Trailing P/E: Close Price / Most Recent 4 Quarters of Earnings
- Forward P/E: Close Price/ Upcoming 4 Quarters of Earnings

Valuation Averages

Negative values are excluded when calculating the averages. A maximum value of 100 is placed on Trailing P/E and Forward P/E, a maximum value of 5 is placed on Forward PEG, and a maximum value of 20 is placed on Price to Sales when calculating the averages. Higher values are rounded down to the maximum for the averages.

Valuation Multiples

The valuation multiples provide the Trailing P/E, Forward P/E, Forward PEG, and Price to Sales for the company and the S&P 500 index average. In addition, a comparison of the current company's values to its 5-year average and an industry average are presented. A discount occurs when the company's ratio is valued more favorably (lower) than that to which it is compared.

Risk

The Risk Rating displays stocks on a scale of 1 to 10 with 10 being awarded to the least risky stocks. It is derived by looking at a series of long-term (5-year) and short-term (90-day) stock performance measures including volatility, magnitude of returns, beta, and correlation. Each factor is equally weighted. Then, equal deciles are used to rank each stock across the market. A stock needs to have at least two of the four risk factors in order to receive a score.

- Magnitude of Returns The best / worst daily returns in the past 90 days and the best / worst monthly returns in the past 60 months.
- Volatility The standard deviation of the stock price over the last 90 days and last 60 months, along with the average and largest intra-day stock swing.
- Beta Measures the tendency of a security's returns to respond to swings in the market, based on the beta of the company versus the relevant index.
- Correlation Determines how closely the returns of the stock and the relevant index move together, measured over the last 90 days and last 60 months.

Risk Analysis

Price analysis for the company and the S&P 500 is provided over two time periods. Daily analysis is provided for the last 90 days, whereas monthly statistics are used for the last 60 months.

Price Momentum

The Price Momentum Rating is based on a combination of two technical performance factors: relative strength and seasonality. The factors are equally weighted. Equal deciles are then used to rank each stock across the market on a scale of 1 to 10, with 10 being most favorable. A stock needs to have data for the relative strength factor in order to receive a score.

- Relative Strength The relative strength of the company for the last 10 days, 50 days, and 200 days on a scale of 1 to 100.
- Seasonality The average monthly return (price performance) for the current month and next 2 months for the company and industry, over the past 10 years. A lower industry rank indicates a higher return.

Price Performance

Daily close prices are used to calculate the price performance of the stock. The performance of the S&P 500 is also displayed as a means of comparison.

Insider Trading

The Insider Trading Rating is based on short-term (70% weight) and long-term (30% weight) legal insider trading behavior. After the weightings are considered to combine individual factors, a function similar to a normal distribution is used to rank each stock across the market on a scale of 1 to 10, with 10 being most favorable. A stock needs to have at least one of the two insider trading factors in order to receive a score.

- Short-Term Insider Uses insider buy and sell transactions within the past 90 days. This factor is based on the quantitative insider trading model from LSEG that considers the insider's role, consensus, number of shares, market capitalization of the company, and the historic stock performance following trades by the given insider.
- Long-Term Insider Looks at buying, selling and option exercise decisions over the past six months relative to other stocks within the same business sector. The net shares are presented alongside the business sector average as a means of comparison.

Monthly Buys and Sells

The total market value of open-market buying and selling is displayed by month in the chart for easy comparison. Transactions by trusts and corporations are excluded, along with buys greater than \$10 million and sales greater than \$50 million. Transactions for the exercise of derivatives and option exercises are excluded from the totals.

Institutional Holders

The top five institutional holders of the company are listed in descending order, based on their total share holdings. Possible values for the institution type include Brokerage, Funds, Inv Mgmt, or Strategic.

Executive Holders

The top five executive insiders of the company are listed in descending order, based on their total direct common share holdings (options are not considered). Indirect holdings are excluded, as the owner may not actually have investment discretion over these shares. This table is updated monthly. Insiders who have not filed any transactions or holdings over the past two years are excluded as this may indicate that the individual is no longer associated with the company. Additionally, direct shares held must be greater than 1,000 to be considered.

Insider Roles

These role codes may appear in the data for recent insider buys and sells or top executive holders:

AF - Affiliate

AI - Affiliate of Advisor B - Beneficial Owner

C - Controller

CB - Chairman

CEO - Chief Executive Officer CFO - Chief Financial Officer CI - Chief Investment Officer CO - Chief Operating Officer

CT - Chief Technology Officer

D - Director

DO - Director / Beneficial Owner DS - Indirect Shareholder EC - Member of Exec Committee

EVP - Exec Vice President

FO - Former GC - General Counsel GP - General Partner

H - Officer / Director / Owner

IA - Investment Advisor

MC - Member of Committee

MD - Managing Director O - Officer

OB - Officer / Beneficial Owner

OE - Other Executive
OS - Officer of Subsidiary
OT - Officer / Treasurer
OX - Divisional Officer

OD - Officer / Director

P - President R - Retired

S - Secretary SH - Shareholder

SVP - Senior Vice President

T - Trustee
UT - Unknown
VC - Vice Chairman
VP - Vice President

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