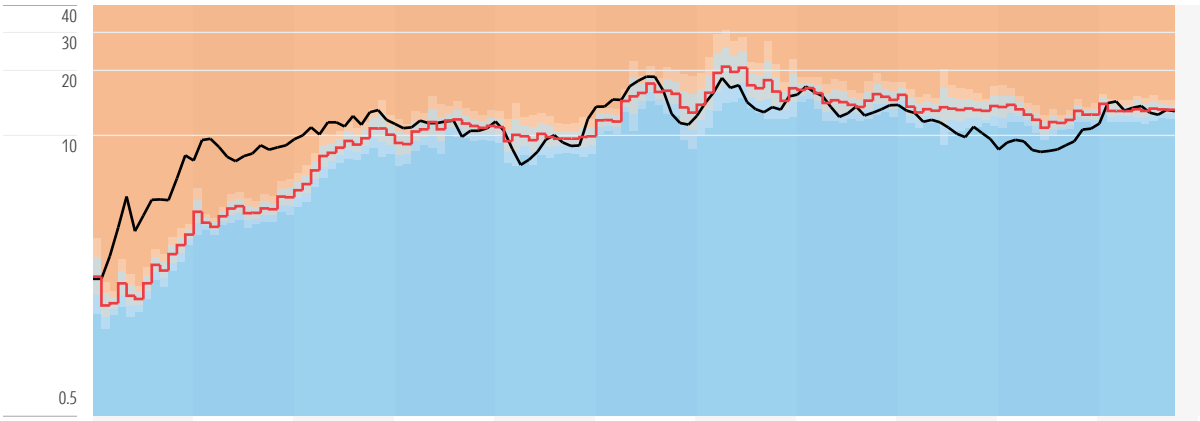
Vale SA XVALO ★★★ 11 Sep 2026 04:42, UTC

Economic Moat	Uncertainty	Price/Fair Value	Trailing Dividend Yield %	Market Cap	Investment Style	Sector	Industry
None	Medium	0.99	5.57	—	Large Value	Basic Materials	Other Industrial Metals & Mining



	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	YTD
Performance											
Price/Fair Value	2.20	1.86	1.12	1.05	1.37	0.94	0.93	0.95	0.63	0.91	0.99
Total Return %	175.81	30.38	18.96	5.42	20.39	3.94	37.02	-3.19	-31.20	45.85	17.13
Index	37.05	27.92	16.40	34.03	4.95	-11.87	5.06	23.11	-8.51	31.93	17.48

As of 10 Sep 2026 | Index: Morningstar Brazil GR BRL. Fair Value data as of 8 Sep 2026 04:41, UTC.

Madison Sargis, Head of Analytics for Morningstar, Inc., oversees the methodology that supports Quantitative Fair Value Estimates and Quantitative Star Ratings. Ms Sargis is guided by the Morningstar Research Services' Code of Ethics and the Morningstar, Inc. Code of Ethics in carrying out his responsibilities. For information regarding Conflicts of Interests, visit https://shareholders.morningstar.com/governance/compliance-disclosures/default.aspx

Business Description

Vale is a large global miner and the world's largest producer of iron ore and pellets. In recent years, the company has sold noncore assets such as its fertilizer, coal, and steel operations to concentrate on iron ore, nickel, and copper. Earnings are dominated by its iron ore business. The base metals division is much smaller, consisting of nickel mines and smelters along with copper mines producing copper in concentrate. In 2024, Vale sold a minority 10% stake in its base metals business, likely the first step in separating base metals and iron ore.

Valuation as of 9 Sep 2026

Vale SA earns a 3-star quantitative star rating, indicating our belief that this share class is a balanced choice, but prudent investors should consider looking elsewhere. The stock currently trades at a price consistent with our quantitative fair value estimate, which has a medium uncertainty rating.

The firm's valuation metrics increase our estimated fair value. A company's valuation metrics provide insights into the market's expectations for its future growth and profitability. Reflecting the firm's valuation is its enterprise value to revenue ratio of 2.0, which sits in the bottom 45% globally. The prevailing enterprise value/sales ratio is low relative to the long-term earnings power of the business. This benefit contributes to our balanced fair value estimate.

The company's profitability is an additional encouraging factor. Highly profitable companies are often more resilient in recessions and are likely to generate stronger future cash flows for shareholders. The firm's enterprise value to free cash flow ratio of 7.5, a core component of profitability, sits in the bottom 10% compared with peers globally. This can be a sign of operational efficiency and potential for the company to fund growth, pay dividends, or reduce debt without needing additional capital. This characteristic further promotes our neutral price/fair value ratio.

In addition to the aforementioned drivers, our model considers momentum as part of its comprehensive analysis. This share class has outperformed the broader universe over the past year. While we believe the stock is fairly-valued, this outperformance had a negative impact on our valuation estimate.

Economic Moat as of 9 Sep 2026

This company lacks a competitive advantage, receiving a quantitative economic moat rating of none. Additionally, the firm's moderate financial health score suggests it is acceptably positioned against adverse economic circumstances.

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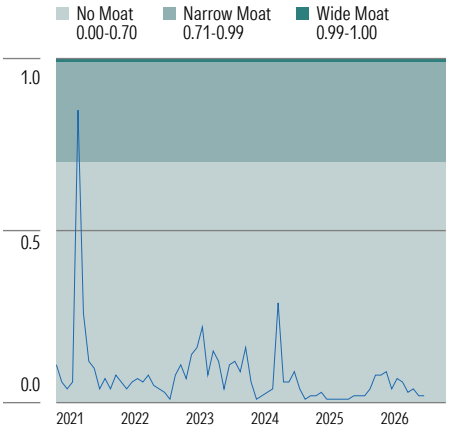
Vale SA XVALO ★★★

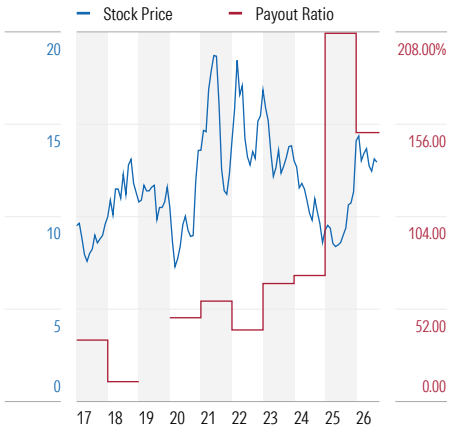
11 Sep 2026 04:42, UTC

Economic Moat	Uncertainty	Price/Fair Value	Trailing Dividend Yield %	Market Cap	Investment Style	Sector	Industry
None	Medium	0.99	5.57	—	Large Value	Basic Materials	Other Industrial Metals & Mining

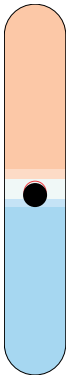
Economic Moat History as of 5 Sep 2026



Dividends as of 10 Sep 2026



Valuation as of 8 Sep 2026



Fair Value 13.15
Uncertainty : Medium
Last Close 12.95

Fairly Valued

Economic Moat
None
1-Star Price
> 14.57
5-Star Price
< 11.86

Financials (Fiscal Year End 31 Dec 2026)

2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	06/2026	Fiscal
27.49	33.97	36.58	37.57	40.02	54.50	43.84	41.78	38.06	38.40	41.24	Revenue (Bil)
8.19	11.41	13.04	14.13	18.55	30.84	17.79	15.86	11.10	11.34	11.99	Operating Income (Bil)
29.79	33.59	35.65	37.62	46.35	56.59	40.57	37.95	29.17	29.54	29.08	Operating Margin (%)
3.98	5.51	6.86	-1.68	4.88	22.45	18.79	7.98	6.17	2.35	2.11	Net Income (Bil)
0.77	1.05	1.32	-0.33	0.95	4.47	4.05	1.83	1.44	0.55	0.50	Diluted Earnings/Share
6.58	12.45	12.90	12.11	14.32	25.68	11.49	13.17	9.37	8.80	9.57	Operating Cash Flow (Bil)
4.95	3.83	3.78	3.70	4.43	5.03	5.45	5.92	6.45	6.01	6.01	Capital Spending (Bil)
2.52	7.99	10.68	8.48	13.12	20.63	7.31	8.15	2.61	3.11	9.57	Free Cash Flow (Bil)
5.15	5.20	5.13	5.13	5.13	4.89	4.48	4.34	—	—	4.27	Avg Shares Outstand(Bil)

Valuation as of 10 Sep 2026

2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Current	Calendar
2.20	1.86	1.12	1.05	1.37	0.94	0.93	0.95	0.63	0.91	0.99	Price/Fair Value
1.71	1.67	1.94	1.81	2.20	1.32	1.78	1.61	0.98	1.43	1.57	Price/Sales
—	8.02	16.00	18.43	30.41	4.20	3.84	7.03	4.32	9.71	30.21	Price/Earnings
10.47	4.57	5.01	8.51	4.36	2.57	5.85	5.39	3.20	5.93	6.75	Price/Cash Flow
1.11	1.30	1.66	1.54	2.37	2.10	2.08	1.66	1.07	1.38	1.66	Price/Book

Operating Performance (Fiscal Year End 31 Dec 2026)

2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	06/2026	Fiscal (%)
4.25	5.56	7.32	-1.87	5.31	24.74	21.31	8.82	7.07	2.82	2.35	Return on Assets
30.11	18.54	15.69	-4.00	12.88	63.93	53.42	21.20	16.92	7.03	5.46	Return on Equity
11.42	12.29	12.19	0.53	11.61	44.01	36.88	16.65	13.52	6.87	5.78	Rtn on Invested Capital

Dividends as of 10 Sep 2026

2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Current	Calendar (%)
0.05	0.42	0.15	0.26	0.45	2.79	1.45	1.22	1.02	1.14	0.72	Dividend Per Share
0.62	3.81	1.99	1.92	2.68	18.84	4.78	8.06	15.72	9.71	5.57	Trailing Dividend Yield
—	—	—	0.75	0.00	0.00	7.21	5.50	1.16	0.00	0.32	Buyback Yield

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Appendix

Economic Moat History as of 5 Sep 2026 (No Moat: 0.00-0.70, Narrow Moat: 0.70-0.99, Wide Moat: 0.99-1.00)

Year	January	February	March	April	May	June	July	August	September	October	November	December
2026	0.08	0.09	0.04	0.07	0.06	0.03	0.04	0.02	0.02	—	—	—
2025	0.02	0.03	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.04	0.08
2024	0.06	0.01	0.02	0.03	0.04	0.29	0.06	0.06	0.09	0.04	0.01	0.02
2023	0.07	0.14	0.16	0.22	0.08	0.15	0.12	0.04	0.11	0.12	0.09	0.16
2022	0.06	0.04	0.06	0.07	0.06	0.08	0.05	0.04	0.03	0.01	0.08	0.11
2021	0.11	0.06	0.04	0.06	0.85	0.26	0.12	0.10	0.04	0.07	0.04	0.08

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The Quantitative Ratings are calculated daily and derived from the analyst-driven ratings of a company's peers as determined by statistical algorithms. Morningstar, Inc. ("Morningstar", "we", "our") calculates Quantitative Ratings for companies whether or not it already provides analyst ratings and qualitative coverage. In some cases, the Quantitative Ratings may differ from the analyst ratings because a company's analyst-driven ratings can significantly differ from other companies in its peer group.

i. **Quantitative Fair Value Estimate:** Intended to represent Morningstar's estimate of the per share dollar amount that a company's equity is worth today. Morningstar calculates the Quantitative Fair Value Estimate using a statistical model derived from the Fair Value Estimate Morningstar's equity analysts assign to companies. Please go to http://global.morningstar.com/equitydisclosures for information about Fair Value Estimate Morningstar's equity analysts assign to companies.

ii. **Quantitative Economic Moat:** Intended to describe the strength of a firm's competitive position. It is calculated using an algorithm designed to predict the Economic Moat rating a Morningstar analyst would assign to the stock. The rating is expressed as Narrow, Wide, or None.

Narrow – assigned when the probability of a stock receiving a "Wide Moat" rating by an analyst is greater than 70% but less than 99%.

Wide – assigned when the probability of a stock receiving a "Wide Moat" rating by an analyst is greater than 99%.

None – assigned when the probability of an analyst receiving a "Wide Moat" rating by an analyst is less than 70%.

iii. **Quantitative Star Rating:** Intended to be the summary rating based on the combination of our Quantitative Fair Value Estimate, current market price, Quantitative Uncertainty Rating, and momentum. The rating is expressed as One-Star, Two-Star, Three-Star, Four-Star, and Five-Star.

★ – the stock is overvalued with a reasonable margin of safety.
*Log (Quant FVE/Price) < -1*Quantitative Uncertainty*
*Micro-Caps: Log (Quant FVE/Price) < -1.5*Quantitative Uncertainty*

★★ - the stock is somewhat overvalued.
*Log (Quant FVE/Price) between (-1*Quantitative Uncertainty, -0.5*Quantitative Uncertainty)*
*Micro-Caps: Log (Quant FVE/Price) between (-1.5*Quantitative Uncertainty, -0.75*Quantitative Uncertainty)*

★★★ – the stock is approximately fairly valued.
*Log (Quant FVE/Price) between (-0.5*Quantitative Uncertainty, 0.5*Quantitative Uncertainty)*
*Micro-Caps: Log (Quant FVE/Price) between (-0.75*Quantitative Uncertainty, 0.75*Quantitative Uncertainty)*

★★★★ – the stock is somewhat undervalued.
*Log (Quant FVE/Price) between (0.5*Quantitative Uncertainty, 1*Quantitative Uncertainty)*
*Micro-Caps: Log (Quant FVE/Price) between (0.75*Quantitative Uncertainty, 1.5*Quantitative Uncertainty)*

★★★★★ – the stock is undervalued with a reasonable margin of safety.
*Log (Quant FVE/Price) > 1*Quantitative Uncertainty*
*Micro-Caps: Log (Quant FVE/Price) > 1.5*Quantitative Uncertainty*

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Low – the interquartile range for possible fair values is less than 10%

Medium – the interquartile range for possible fair values is less than 15% but greater than 10%

High – the interquartile range for possible fair values is less than 35% but greater than 15%

Very High – the interquartile range for possible fair values is less than 80% but greater than 35%

Extreme – the interquartile range for possible fair values is greater than 80%

v. **Quantitative Financial Health:** Intended to reflect the probability that a firm will face financial distress in the near future. The calculation uses a predictive model designed to anticipate when a company may default on its financial obligations. The rating is expressed as Weak, Moderate, and Strong.

Weak – assigned when Quantitative Financial Health < 0.2

Moderate – assigned when Quantitative Financial Health is between 0.2 and 0.7

Strong – assigned when Quantitative Financial Health > 0.7

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i. **Last Close** – Price of the stock as of the close of the market of the last trading day before date of the report.

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Fairly Valued – Last Price is in line with Morningstar's quantitative fair value estimate.

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