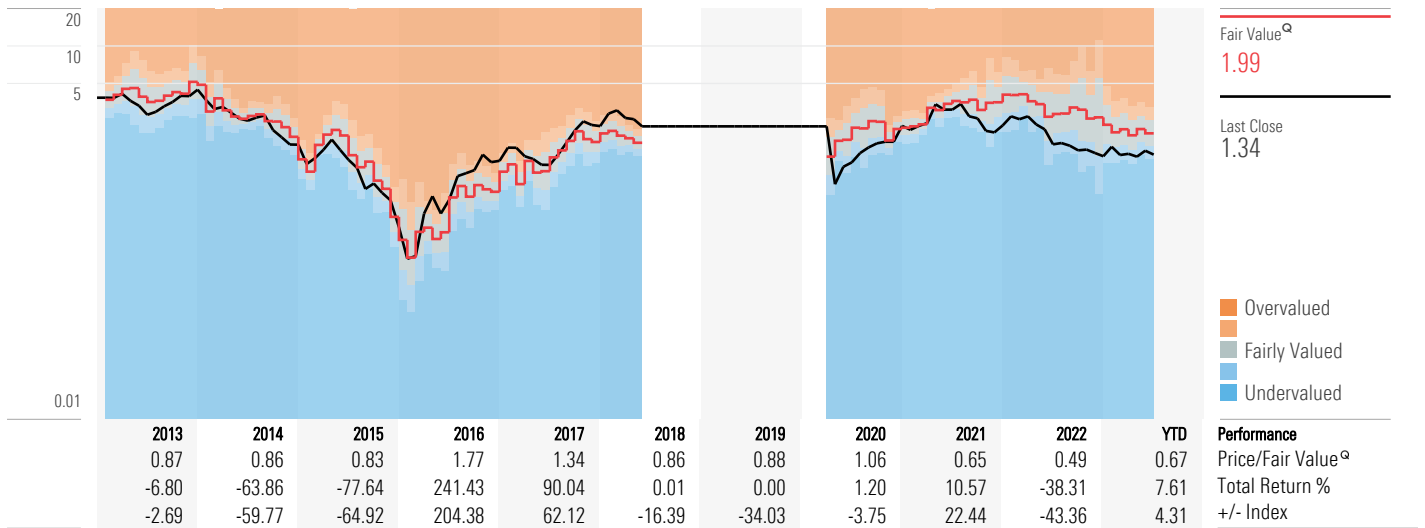


Usinas Siderurgicas de Minas Gerais SA Pfd Shs -A- XUSI ★★★ 6 Jun 2023, 23:19 UTC

Economic Moat ^Q	Uncertainty ^Q	Price/Fair Value ^Q	ESG Risk Rating Assessment ¹	Trailing Dividend Yield %	Market Cap	Investment Style	Sector	Industry
None	Very High	0.7	3 May 2023 05:00, UTC	4.40	1.6969 Bil	Mid Value	Basic Materials	Steel



As of 6 Jun 2023 | Index: Morningstar Brazil GR BRL. Fair Value data as of 6 Jun 2023, 23:19 UTC.

¹The ESG Risk Rating Assessment is a representation of Sustainalytics' ESG Risk Rating. Lee Davidson, Head of Manger and Quantitative Research, oversees the methodology that supports Quantitative Fair Value Estimates and Quantitative Star Ratings. Mr. Davidson is guided by the Code of Ethics and Investment Research Integrity Policy of Morningstar Research Services LLC, a subsidiary of Morningstar, Inc. Morningstar's Quantitative Research team, which consist of employees of Morningstar, Inc., are guided by Morningstar, Inc.'s Code of Ethics. For information regarding Conflicts of Interests, visit <http://global.morningstar.com/equitydisclosures>.

Valuation ^Q as of 6 Jun 2023

XUSI is Under Valued at a 33% discount.

Economic Moat ^Q
None

Financial Health ^Q
Moderate

1-Star Price ^Q
> 3.22

5-Star Price ^Q
< 1.23

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Financials as of 6 Jun 2023 (Fiscal Year End 31 Dec 2021)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	YTD	Fiscal
Revenue (Bil)	12.83	11.74	10.19	8.45	10.73	13.74	14.95	16.09	33.74	32.47	7.26	Revenue (Bil)
Operating Income (Bil)	0.40	0.51	-0.76	-0.60	0.95	1.54	0.90	1.77	11.78	3.84	0.49	Operating Income (Bil)
Operating Margin (%)	3.13	4.38	-7.46	-7.13	8.81	11.18	6.0	11.01	34.91	11.84	6.7	Operating Margin (%)
Net Income (Mil)	-142	130	-3,236	-670	233	727	213	673	9,071	1,616	474	Net Income (Mil)
Diluted Earnings/Share	-0.14	0.13	-3.28	-0.60	0.18	0.57	0.17	0.52	7.07	1.26	0.37	Diluted Earnings/Share
Operating Cash Flow (Mil)	1,106	1,412	103	-310	877	510	1,972	3,759	5,336	997	1,364	Operating Cash Flow (Mil)
Capital Spending (Mil)	-1,039	-1,172	-754	-223	-216	-434	-681	-799	-1,483	-2,092	-580	Capital Spending (Mil)
Free Cash Flow (Mil)	68	239	-651	-533	661	76	1,290	2,961	3,853	-1,095	784	Free Cash Flow (Mil)
Avg Shares Outstand(Mil)	987	988	988	1,121	1,228	1,229	1,229	1,230	1,231	1,231	1,231	Avg Shares Outstand(Mil)
Dividend Per Share	—	—	0.03	—	—	—	—	0.04	1.43	0.63	0.06	Dividend Per Share

Valuation as of 6 Jun 2023

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Current	Calendar
Price/Fair Value ^Q	0.87	0.86	0.83	1.77	1.34	0.86	0.88	1.06	0.65	0.49	0.67	Price/Fair Value ^Q
Price/Sales	1.10	0.42	0.14	0.58	1.16	—	—	1.24	0.59	0.27	0.27	Price/Sales
Price/Earnings	—	18.87	—	—	—	—	—	2.32	1.88	10.16	—	Price/Earnings
Price/Cash Flow	7.38	4.55	2.80	—	55.50	—	—	5.09	3.82	4.02	3.87	Price/Cash Flow
Price/Book	0.85	0.31	0.10	0.36	0.79	—	—	1.32	0.91	0.37	0.37	Price/Book

Operating Performance as of 6 Jun 2023 (Fiscal Year End 31 Dec 2021)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Q3	Fiscal (%)
Return on Assets	-0.44	0.42	-11.11	-2.48	0.89	2.77	0.81	2.39	26.13	4.07	1.18	Return on Assets
Return on Equity	-0.85	0.78	-21.48	-4.97	1.71	5.18	1.51	4.65	49.54	7.2	2.03	Return on Equity
Rtn on Invested Capital	0.04	0.99	-14.01	-2.09	3.13	2.96	1.13	4.12	37.09	6.23	1.22	Rtn on Invested Capital

Business Description

Usinas Siderurgicas de Minas Gerais SA is a Brazil-based company that is primarily engaged in the production and distribution of flat steel products. The company's product portfolio consists of ordinary heavy plates, Sincron series premium heavy plates, hot strips, cold-rolled products, and galvan-

ized products. These products are used in automotive, civil construction, railway, electric, white goods, offshore platforms, and agricultural and construction machinery. The Brazilian domestic market represents the majority of the company's sales, while the United States, Argentina, and Turkey are the three biggest export destination mar-

kets for the company.

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The quantitative report on equities consists of data, statistics and quantitative equity ratings on equity securities. Morningstar, Inc.'s quantitative equity ratings are forward looking and are generated by a statistical model that is based on Morningstar Inc.'s analyst-driven equity ratings and quantitative statistics. Given the nature of the quantitative report and the quantitative ratings, there is no one analyst in which a given report is attributed to; however, Mr. Lee Davidson, Head of Quantitative Research for Morningstar, Inc., is responsible for overseeing the methodology that supports the quantitative equity ratings used in this report. As an employee of Morningstar, Inc., Mr. Davidson is guided by Morningstar, Inc.'s Code of Ethics and Personal Securities Trading Policy in carrying out his responsibilities.

Quantitative Equity Ratings

Morningstar's quantitative equity ratings consist of: (i) Quantitative Fair Value Estimate, (ii) Quantitative Star Rating, (iii) Quantitative Uncertainty, (iv) Quantitative Economic Moat, and (v) Quantitative Financial Health (collectively the "Quantitative Ratings").

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*

After the initial calculation for the star rating, there is a final filtering step based on the momentum of the company. We rank the companies based on their 12-1 month momentum, then restrict those below the 30th percentile to a maximum of 3 stars.

- iv. **Quantitative Uncertainty:** Intended to represent Morningstar's level of uncertainty about the accuracy of the Quantitative Fair Value Estimate. Generally, the lower the Quantitative Uncertainty, the narrower the potential range of outcomes for that particular company. The rating is expressed as Low, Medium, High, Very High, and Extreme.

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

Other Definitions

- i. **Last Close** – Price of the stock as of the close of the market of the last trading day before date of the report.
- ii. **Quantitative Valuation** – Using the below terms, intended to denote the relationship between the security's **Last Price** and Morningstar's quantitative fair value estimate for that security.

Undervalued – Last Price is below Morningstar's quantitative fair value estimate.

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

Overvalued – Last Price is above Morningstar's quantitative fair value estimate.

Overvalued – Last Price is above Morningstar's quantitative fair value estimate.

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Sustainalytics analyzes over 1,300 data points to assess a company's exposure to and management of ESG risks. In other words, ESG Risk Ratings measures a company's unmanaged ESG Risks represented as a quantitative score. Unmanaged Risk is measured on an open-ended scale starting at zero (no risk) with lower scores representing less unmanaged risk and, for 95% of cases, the unmanaged ESG Risk score is below 50.

Based on their quantitative scores, companies are grouped into one of five Risk

Categories (negligible, low, medium, high, severe). These risk categories are absolute, meaning that a 'high risk' assessment reflects a comparable degree of unmanaged ESG risk across all subindustries covered.

The ESG Risk Rating Assessment is a visual representation of Sustainalytics ESG Risk Categories on a 1 to 5 scale. Companies with Negligible Risk = 5 Globes, Low Risk = 4, Medium Risk = 3 Globes, High Risk = 2 Globes, Severe Risk = 1 Globe. For more information, please visit sustainalytics.com/esg-ratings/

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