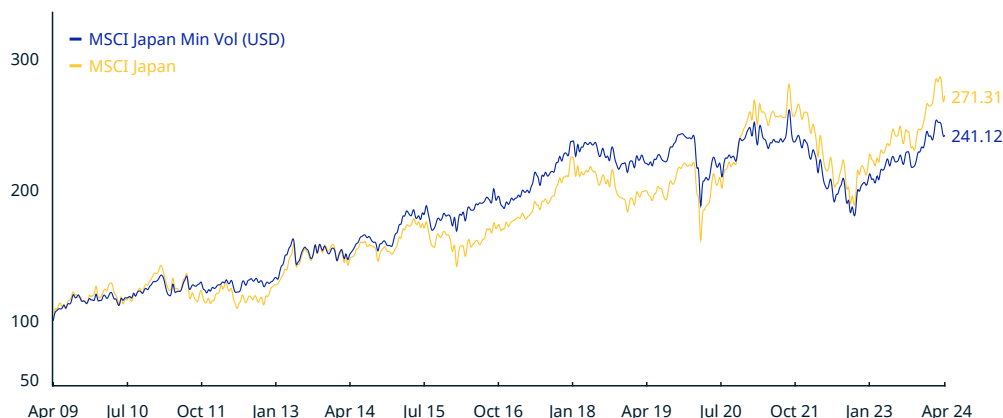


# MSCI Japan Minimum Volatility (USD) Index (USD)

The **MSCI Japan Minimum Volatility (USD) Index** aims to reflect the performance characteristics of a minimum variance strategy applied to the large and mid cap Japan equity universe. The index is calculated by optimizing the MSCI Japan Index, its parent index, in USD for the lowest absolute risk (within a given set of constraints). Historically, the index has shown lower beta and volatility characteristics relative to the MSCI Japan Index.

For a complete description of the index methodology, please see [Index methodology - MSCI](#).

## CUMULATIVE INDEX PERFORMANCE – NET RETURNS (USD) (APR 2009 – APR 2024)



## ANNUAL PERFORMANCE (%)

Year	MSCI Japan Min Vol (USD)	MSCI Japan
2023	15.59	20.32
2022	-12.14	-16.65
2021	-3.94	1.71
2020	1.01	14.48
2019	12.44	19.61
2018	-5.44	-12.88
2017	20.52	23.99
2016	2.84	2.38
2015	16.60	9.57
2014	1.36	-4.02
2013	20.06	27.16
2012	3.14	8.18
2011	-3.56	-14.33
2010	14.72	15.44

## INDEX PERFORMANCE – NET RETURNS (%) (APR 30, 2024)

	1 Mo	3 Mo	1 Yr	YTD	ANNUALIZED			
					3 Yr	5 Yr	10 Yr	Since May 31, 2001
MSCI Japan Min Vol (USD)	-4.00	-1.61	11.49	1.50	1.05	1.82	4.84	4.10
MSCI Japan	-4.86	0.95	19.23	5.61	2.51	6.41	6.43	3.68

## FUNDAMENTALS (APR 30, 2024)

Div Yld (%)	P/E	P/E Fwd	P/BV
2.36	15.79	15.17	1.42
1.96	16.68	15.47	1.61

## INDEX RISK AND RETURN CHARACTERISTICS (MAY 31, 2001 – APR 30, 2024)

	Beta	Tracking Error (%)	Turnover (%) <sup>1</sup>	ANNUALIZED STD DEV (%) <sup>2</sup>			SHARPE RATIO <sup>2, 3</sup>			Since May 31, 2001	MAXIMUM DRAWDOWN	
				3 Yr	5 Yr	10 Yr	3 Yr	5 Yr	10 Yr		(%)	Period YYYY-MM-DD
MSCI Japan Min Vol (USD)	0.74	6.52	20.90	12.89	12.93	11.52	-0.07	0.04	0.34	0.25	39.68	2007-02-27–2009-03-12
MSCI Japan	1.00	0.00	3.45	15.95	15.89	14.08	0.06	0.34	0.41	0.20	53.17	2006-05-08–2009-03-10

<sup>1</sup> Last 12 months

<sup>2</sup> Based on monthly net returns data

<sup>3</sup> Based on NY FED Overnight SOFR from Sep 1 2021 & on ICE LIBOR 1M prior that date

The MSCI Japan Minimum Volatility (USD) Index was launched on Feb 18, 2014. Data prior to the launch date is back-tested test (i.e. calculations of how the index might have performed over that time period had the index existed). There are frequently material differences between back-tested performance and actual results. Past performance – whether actual or back-tested – is no indication or guarantee of future performance.

INDEX CHARACTERISTICS

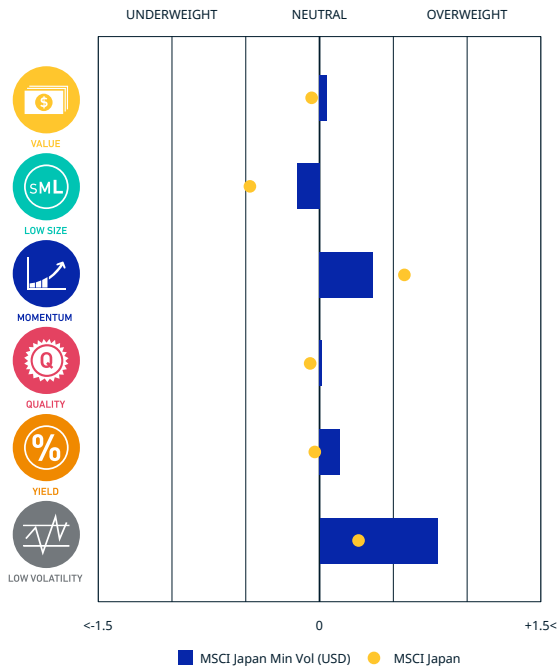
	MSCI Japan Min Vol (USD)	MSCI Japan
Number of Constituents	145	217
Weight (%)		
Largest	1.93	6.48
Smallest	0.05	0.04
Average	0.69	0.46
Median	0.58	0.23

TOP 10 CONSTITUENTS

	Index Wt. (%)	Parent Index Wt. (%)	Sector
MS&AD INSURANCE GROUP	1.93	0.61	Financials
TOKIO MARINE HOLDINGS	1.87	1.51	Financials
TOYOTA MOTOR CORP	1.82	6.48	Cons Discr
MITSUBISHI UFJ FIN GRP	1.72	2.94	Financials
OTSUKA HOLDINGS CO	1.71	0.47	Health Care
SUMITOMO MITSUI FINL GRP	1.67	1.92	Financials
MIZUHO FINANCIAL GROUP	1.65	1.24	Financials
BRIDGESTONE CORP	1.63	0.67	Cons Discr
ITOCHU CORP	1.61	1.42	Industrials
CANON INC	1.61	0.72	Info Tech
Total	17.22	17.98	

FACTORS - KEY EXPOSURES THAT DRIVE RISK AND RETURN

MSCI FACTOR BOX



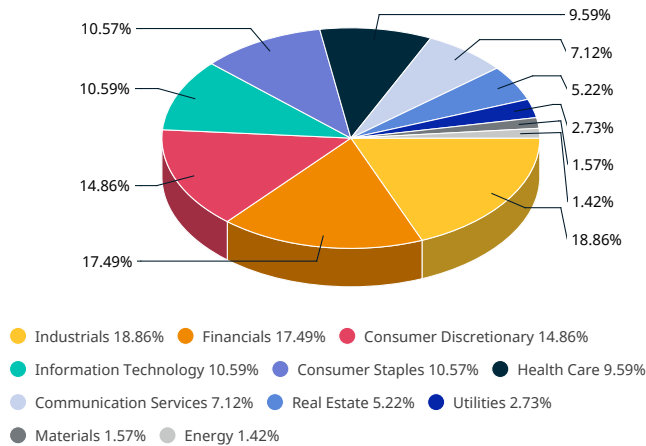
MSCI FaCS

- VALUE**  
Relatively Inexpensive Stocks
- LOW SIZE**  
Smaller Companies
- MOMENTUM**  
Rising Stocks
- QUALITY**  
Sound Balance Sheet Stocks
- YIELD**  
Cash Flow Paid Out
- LOW VOLATILITY**  
Lower Risk Stocks

MSCI FaCS provides absolute factor exposures relative to a broad global index - MSCI ACWI IMI.

Neutral factor exposure (FaCS = 0) represents MSCI ACWI IMI.

SECTOR WEIGHTS



## MSCI FACTOR BOX AND FaCS FRAMEWORK (Please refer to complete description of the MSCI FaCS methodology [here](#))

MSCI FaCS is a standard method for evaluating and reporting the Factor characteristics of equity portfolios. MSCI FaCS consists of Factor Groups (e.g. Value, Size, Momentum, Quality, Yield, and Volatility) that have been extensively documented in academic literature and validated by MSCI Research as key drivers of risk and return in equity portfolios. These Factor Groups are constructed by aggregating 16 factors (e.g. Book-to-Price, Earnings/Dividend Yields, LT Reversal, Leverage, Earnings Variability/Quality, Beta) from the latest Barra global equity factor risk model, GEMLT, designed to make fund comparisons transparent and intuitive for use. The MSCI Factor Box, which is powered by MSCI FaCS, provides a visualization designed to easily compare absolute exposures of funds/indexes and their benchmarks along 6 Factor Groups that have historically demonstrated excess market returns over the long run.

## ABOUT MSCI

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