MSCI Europe Minimum Volatility (USD) Index (USD)

The **MSCI Europe Minimum Volatility (USD) Index** aims to reflect the performance characteristics of a minimum variance strategy applied to the large and mid cap equity universe across the European Developed Markets (DM) countries*. The index is calculated by optimizing the MSCI Europe 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 Europe Index.

For a complete description of the index methodology, please see Index methodology - MSCI.

CUMULATIVE INDEX PERFORMANCE – NET RETURNS (USD) (MAR 2009 – MAR 2024)



ANNUAL PERFORMANCE (%)

Year	MSCI Europe Min Vol (USD)	MSCI Europe
2023	15.81	19.89
2022	-19.08	-15.06
2021	13.26	16.30
2020	5.06	5.38
2019	22.09	23.77
2018	-7.92	-14.86
2017	22.94	25.51
2016	-6.86	-0.40
2015	4.36	-2.84
2014	1.69	-6.18
2013	22.66	25.23
2012	14.51	19.12
2011	1.12	-11.06
2010	2.73	3.88

Mar 09 Jun 10 Sep 11 Dec 12 Mar 14 Jun 15 Sep 16 Dec 17 Mar 19 Jun 20 Sep 21 Dec 22 Mar 24

INDEX PERFORMANCE – NET RETURNS (%) (MAR 29, 2024)

FUNDAMENTALS (MAR 29, 2024)

					ANNUALIZED							
	1 Mo	3 Mo	1 Yr	YTD	3 Yr	5 Yr	10 Yr _N	Since lov 30, 2001	Div Yld (%)	P/E	P/E Fwd	P/BV
MSCI Europe Min Vol (USD)	2.83	2.84	8.57	2.84	3.20	5.05	4.21	7.68	3.34	18.29	15.43	2.49
MSCI Europe	3.74	5.23	14.11	5.23	6.19	7.96	4.44	6.02	3.14	15.12	13.74	2.11

INDEX RISK AND RETURN CHARACTERISTICS (NOV 30, 2001 - MAR 29, 2024)

			ackingTurnover ror (%) (%) ¹	ANNUALIZED STD DEV (%) 2			SHARPE RATIO 2,3			1	MAXIMUM DRAWDOWN		
	Beta	Tracking Error (%)		3 Yr	5 Yr	10 Yr	3 Yr	5 Yr	10 Yr	Since Nov 30, 2001	(%)	Period YYYY-MM-DD	
MSCI Europe Min Vol (USD)	0.76	6.25	20.21	16.06	15.83	13.40	0.11	0.26	0.27	0.47	54.73	2007-10-31-2009-03-09	
MSCI Europe	1.00	0.00	3.30	18.28	19.46	16.36	0.28	0.39	0.26	0.32	62.99	2007-10-31-2009-03-09	
	¹ Last 12 months ² Based on monthly net returns data ³ Based on NY FED Overnight SOFR from Sep 1 2021 & on ICE LIBOR 1M prior that date												

* DM countries in Europe include: Austria, Belgium, Denmark, Finland, France, Germany, Ireland, Italy, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the UK.

The MSCI Europe Minimum Volatility (USD) Index was launched on Nov 30, 2009. 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.



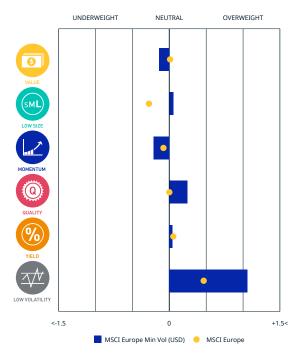
INDEX CHARACTERISTICS

	MSCI Europe Min Vol (USD)	MSCI Europe					
Number of	140	421					
Constituents							
	Weight (%)						
Largest	1.88	3.78					
Smallest	0.05	0.02					
Average	0.71	0.24					
Median	0.59	0.10					

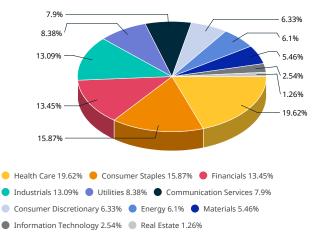
TOP 10 CONSTITUENTS

	Country	Index Wt. (%)	Parent Index Wt. (%)	Sector
UCB (GROUPE)	BE	1.88	0.14	Health Care
BAE SYSTEMS	GB	1.82	0.47	Industrials
INDITEX	ES	1.79	0.50	Cons Discr
GSK	GB	1.73	0.81	Health Care
NOVO NORDISK B	DK	1.72	3.78	Health Care
FERRARI (IT)	IT	1.70	0.50	Cons Discr
WOLTERS KLUWER	NL	1.64	0.35	Industrials
RELX (GB)	GB	1.64	0.74	Industrials
AIR LIQUIDE	FR	1.58	0.99	Materials
ZURICH INSURANCE GROUP	СН	1.55	0.72	Financials
Total		17.06	8.99	

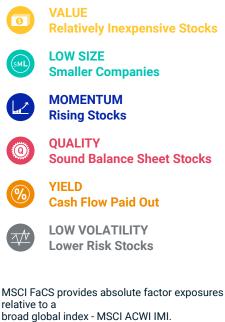
FACTORS - KEY EXPOSURES THAT DRIVE RISK AND RETURN MSCI FACTOR BOX



SECTOR WEIGHTS

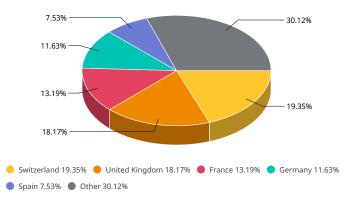


MSCI FaCS



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

COUNTRY 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

MSCI is a leading provider of critical decision support tools and services for the global investment community. With over 45 years of expertise in research, data and technology, we power better investment decisions by enabling clients to understand and analyze key drivers of risk and return and confidently build more effective portfolios. We create industry-leading research-enhanced solutions that clients use to gain insight into and improve transparency across the investment process. To learn more, please visit <u>www.msci.com</u>.

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