

STOXX® EUROPE 600 MINIMUM VARIANCE UNCONSTRAINED INDEX

Index description

The STOXX® Europe 600 Minimum Variance Unconstrained Index weights the components of the underlying STOXX® Europe 600 Index so that portfolio variance is minimized. STOXX uses Axioma's factor model for the optimization process. The Unconstrained version applies loosely stated constraints to seek an improved risk profile. It targets investors seeking a more optimal portfolio in terms of replicated volatility.

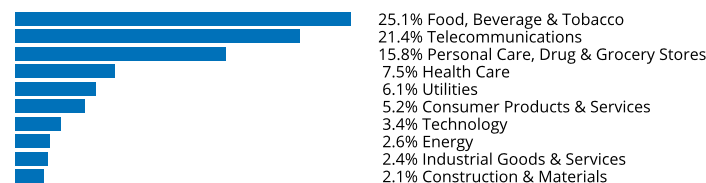
Key facts

- » Minimized volatility is suitable for risk-averse investors. At the same time, the return of the index is higher than the benchmark
- » Suitable as a liquid underlying for ETFs and structured products. It is easy to replicate as it has fewer components than the underlying Index. It also has predictable rebalancing dates and is optimized to allow tracking (low turnover, transaction costs analysis, etc.).
- » Capping constraints are applied in accordance with the Undertakings for Collective Investment in Transferable Securities (UCITS) directive to ensure that funds can easily track the index
- » Two versions - Constrained and Unconstrained - cater to different investor needs
- » The Unconstrained version offers a first-of-its-kind index for a true minimum variance mandate

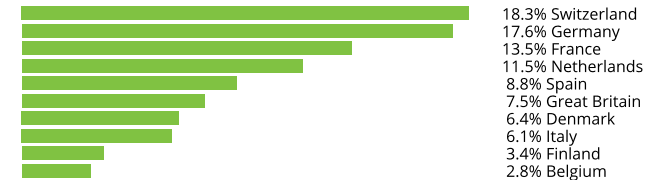
Descriptive statistics

Index	Market cap (EUR bn.)		Components (EUR bn.)				Component weight (%)		Turnover (%)
	Full	Free-float	Mean	Median	Largest	Smallest	Largest	Smallest	Last 12 months
STOXX Europe 600 Minimum Variance Unconstrained Index	N/A	100.7	0.8	0.3	7.8	0.0	7.7	0.0	60.2
STOXX Europe 600 Index	12,882.2	10,077.4	16.8	6.0	298.6	1.3	3.0	0.0	3.4

Supersector weighting (top 10)



Country weighting



Risk and return figures¹

Index returns	Return (%)					Annualized return (%)				
	Last month	YTD	1Y	3Y	5Y	Last month	YTD	1Y	3Y	5Y
STOXX Europe 600 Minimum Variance Unconstrained Index	0.0	10.4	3.4	24.2	28.0	N/A	N/A	3.4	7.6	5.1
STOXX Europe 600 Index	2.2	13.8	11.1	44.7	40.3	N/A	N/A	11.2	13.3	7.1
Index volatility and risk	Annualized volatility (%)					Annualized Sharpe ratio ²				
STOXX Europe 600 Minimum Variance Unconstrained Index	8.7	8.4	9.6	11.1	13.5	N/A	N/A	0.2	0.6	0.4
STOXX Europe 600 Index	13.0	12.4	14.1	15.7	17.9	N/A	N/A	0.7	0.8	0.4
Index to benchmark	Correlation					Tracking error (%)				
STOXX Europe 600 Minimum Variance Unconstrained Index	0.9	0.8	0.8	0.9	0.9	7.2	8.1	8.4	8.2	8.2
Index to benchmark	Beta					Annualized information ratio				
STOXX Europe 600 Minimum Variance Unconstrained Index	0.6	0.5	0.6	0.6	0.7	-3.7	-0.8	-1.0	-0.7	-0.4

¹ For information on data calculation, please refer to STOXX calculation reference guide.

² Based on EURIBOR1M

(EUR, gross return), all data as of Jul. 31, 2023

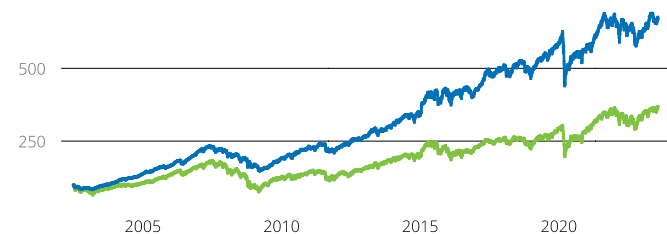
MINIMUM VARIANCE

STOXX® EUROPE 600 MINIMUM VARIANCE UNCONSTRAINED

Fundamentals (for last 12 months)

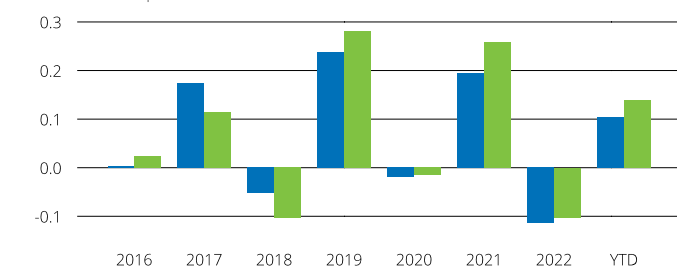
Index	Price/earnings incl. negative		Price/earnings excl. negative		Price/ book	Dividend yield (%) ³	Price/ sales	Price/ cash flow
	Trailing	Projected	Trailing	Projected	Trailing	Trailing	Trailing	Trailing
STOXX Europe 600 Minimum Variance Unconstrained Index	16.6	16.1	15.9	16.0	1.8	3.4	1.1	7.8
STOXX Europe 600 Index	16.2	13.4	14.3	13.2	1.9	3.6	1.2	5.9

Performance and annual returns⁴



— STOXX® Europe 600 Minimum Variance Unconstrained Index

— STOXX® Europe 600 Index



■ STOXX® Europe 600 Minimum Variance Unconstrained Index

■ STOXX® Europe 600 Index

Methodology

On the basis of the underlying index, a covariance matrix is set up by determining the correlation between each component and specific factors. Using Axioma's factor model, the variance-covariance structure of the components is determined, which is then minimized with respect to applicable constraints. The constraints applied cover individual capping, effective number of assets, rebalancing and turnover. The full list of factors including the requirements to be met can be accessed in our Index rulebook: <http://www.stoxx.com/indices/rulebooks.html>

Versions and symbols

Index	ISIN	Symbol	Bloomberg	Reuters
Gross Return EUR	CH0180139302	SAXPUNGR	SAXPUNGR INDEX	.SAXPUNGR
Net Return EUR	CH0180139146	SAXPUNR	SAXPUNR INDEX	.SAXPUNR
Net Return EUR	CH0180139146	SAXPUNR	SAXPUNR INDEX	.SAXPUNR
Price EUR	CH0180138981	SAXPUNP	SAXPUNP INDEX	.SAXPUNP
Price EUR	CH0180138981	SAXPUNP	SAXPUNP INDEX	.SAXPUNP
Gross Return USD	CH0180139781	SAXPUNGV	SAXPUNGV INDEX	.SAXPUNGV
Net Return USD	CH0180139625	SAXPUNV	SAXPUNV INDEX	.SAXPUNV
Net Return USD	CH0180139625	SAXPUNV	SAXPUNV INDEX	.SAXPUNV
Price USD	CH0180139468	SAXPUNL	SAXPUNL INDEX	.SAXPUNL
Price USD	CH0180139468	SAXPUNL	SAXPUNL INDEX	.SAXPUNL

Complete list available here: www.stoxx.com/data/vendor_codes.html

Quick facts

Weighting	Optimization
Cap factor	4.5% / 8% / 35%
No. of components	Variable
Review frequency	Monthly

To learn more about the inception date, the currency, the calculation hours and historical values, please see our data vendor code sheet.

CONTACT DETAILS

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BACKTESTED PERFORMANCE

This document contains index performance data based on backtesting, i.e. calculations of how the index might have performed prior to launch if it had existed using the same index methodology and based on historical constituents. Backtested performance information is purely hypothetical and is provided in this document solely for information purposes. Backtested performance does not represent actual performance and should not be interpreted as an indication of actual performance.

CUSTOMIZATION

The index can be used as a basis for the definition of STOXX® Customized Indices, which can be tailored to specific client or mandate needs. STOXX offers a wide range of customization, in terms of component selection, weighting schemes and personalized calculation methodologies.

³ gr. div. yield is calculated as gr. return index return minus price index return

⁴ STOXX data from Jul. 01, 2002 to Jul. 31, 2023

MINIMUM VARIANCE**STOXX® EUROPE 600 MINIMUM VARIANCE UNCONSTRAINED INDEX****Top 10 Components⁵**

Company	Supersector	Country	Weight (%)
BEIERSDORF	Personal Care, Drug & Grocery Stores	Germany	7.74
KPN	Telecommunications	Netherlands	4.99
SWISSCOM	Telecommunications	Switzerland	4.76
ORANGE	Telecommunications	France	4.56
LINDT & SPRUENGLI P	Food, Beverage & Tobacco	Switzerland	4.14
AHOLD DELHAIZE	Personal Care, Drug & Grocery Stores	Netherlands	3.78
HENKEL PREF	Consumer Products & Services	Germany	3.72
CARLSBERG B	Food, Beverage & Tobacco	Denmark	2.68
DAVIDE CAMPARI	Food, Beverage & Tobacco	Italy	2.20
PERNOD RICARD	Food, Beverage & Tobacco	France	2.02

⁵ Based on the composition as of Jul. 31, 2023