MINIMUM VARIANCE

STOXX® CANADA 240 MINIMUM VARIANCE UNCONSTRAINED INDEX

Index description

The STOXX Canada 240 Minimum Variance Unconstrained index weights the components of the underlying STOXX Canada 240 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.

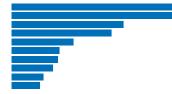
»Two versions - Constrained and Unconstrained - cater to different investor needs.

»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 Canada 240 Minimum Variance Unconstrained Index	N/A	101.3	1.7	1.2	7.8	0.1	7.7	0.1	60.0
STOXX Canada 240 Index	2,184.8	1,984.6	8.3	2.2	124.8	0.4	6.3	0.0	3.1

Supersector weighting (top 10)



18.6% Personal Care, Drug & Grocery Stores 18.5% Telecommunications 12.4% Banks 11.0% Utilities 6.8% Insurance 5.3% Energy 5.1% Food, Beverage & Tobacco 4.6% Industrial Goods & Services 3.5% Technology 3.2% Financial Services

Country weighting

100.0% Canada

Risk and return figures¹

Index returns				R	eturn (%)			An	nualized ret	turn (%)
	Last month	YTD	1Y	3Y	5Y	Last month	YTD	1Y	3Y	5Y
STOXX Canada 240 Minimum Variance Unconstrained Index	-1.8	1.4	-7.4	40.9	48.2	N/A	N/A	-7.4	12.2	8.3
STOXX Canada 240 Index	2.0	6.4	-3.8	60.2	52.2	N/A	N/A	-3.9	17.2	8.9
Index volatility and risk	Annualized volatility (%) Annualized Sharp						pe ratio²			
STOXX Canada 240 Minimum Variance Unconstrained Index	9.5	10.2	12.1	12.2	17.9	N/A	N/A	-0.8	0.9	0.4
STOXX Canada 240 Index	11.2	12.7	15.2	15.2	20.3	N/A	N/A	-0.3	1.0	0.4
Index to benchmark		Correlation				Tracking error (%)				
STOXX Canada 240 Minimum Variance Unconstrained Index	0.8	0.8	0.9	0.9	0.9	6.3	7.0	7.5	7.2	7.0
Index to benchmark	Beta Annualized informati						ition ratio			
STOXX Canada 240 Minimum Variance Unconstrained Index	0.7	0.7	0.7	0.7	0.8	-7.7	-1.3	-0.6	-0.7	-0.2

¹ For information on data calculation, please refer to STOXX <u>calculation reference guide</u>

² Based on EURIBOR1M



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

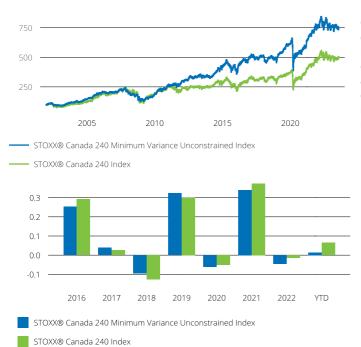
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Fundamentals (for last 12 months)

Index		5		rice/earnings Price/ excl. negative book		Dividend yield (%) ³	Price/ sales	Price/ cash flow	
	Trailing	Projected	Trailing	Projected	Trailing	Trailing	Trailing	Trailing	
STOXX Canada 240 Minimum Variance Unconstrained Index	18.8	15.8	18.6	15.8	2.1	3.0	1.2	17.9	
STOXX Canada 240 Index	16.7	14.8	15.4	14.6	1.9	3.1	1.8	20.6	

Performance and annual returns⁴



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

	ISIN	Symbol	Bloomberg	Reuters
CAD	CH0180139930	SA2CUNCB	SA2CUNCB INDEX	.XA2CB
CAD	CH0180139922	SA2CUNDA	SA2CUNDA INDEX	.XA2CUNDA
CAD	CH0180139914	SA2CUNCA	SA2CUNCA INDEX	.XA2CA
EUR	CH0180139344	SA2CUNGR		.XA2CUNGR
EUR	CH0180139187	SA2CUNR		.SXA2CUNR
EUR	CH0180139187	SA2CUNR		.SXA2CUNR
EUR	CH0180139021	SA2CUNP		.SXA2CUNP
EUR	CH0180139021	SA2CUNP		.SXA2CUNP
USD	CH0180139823	SA2CUNGV		.XA2CUNGV
USD	CH0180139666	SA2CUNV		.SXA2CUNV
	CAD EUR EUR EUR EUR EUR USD	CAD CH0180139930 CAD CH0180139922 CAD CH0180139914 EUR CH0180139344 EUR CH0180139187 EUR CH0180139187 EUR CH0180139021 EUR CH0180139021 EUR CH0180139021 EUR CH0180139021	CAD CH0180139930 SA2CUNCB CAD CH0180139922 SA2CUNDA CAD CH0180139914 SA2CUNCA EUR CH0180139344 SA2CUNRR EUR CH0180139187 SA2CUNR EUR CH0180139187 SA2CUNR EUR CH0180139187 SA2CUNR EUR CH0180139021 SA2CUNP EUR CH0180139021 SA2CUNP EUR CH0180139021 SA2CUNP EUR CH0180139823 SA2CUNP	CAD CH0180139930 SA2CUNCB SA2CUNCB INDEX CAD CH0180139922 SA2CUNDA SA2CUNCA INDEX CAD CH0180139914 SA2CUNCA SA2CUNCA INDEX CAD CH0180139914 SA2CUNCA SA2CUNCA INDEX EUR CH0180139144 SA2CUNGR

Quick facts

Weighting	Optimization
Cap factor	4.5% / 8% / 35%
No. of components	Variable
Review frequency	Monthly
To learn more about the in	ception date, the currency, the calculation hours and historical values, please

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

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

CONTACT DETAILS

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BACKTESTED PERFORMANCE

DACH ICS IED 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 <u>⁴ STOXX data from Dec. 31, 2001 to Jul. 31, 2023</u>

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

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Top 10 Components⁵

Company	Supersector	Country	Weight (%)	
Metro Inc. Cl A	Personal Care, Drug & Grocery Stores	Canada	7.66	
BCE Inc.	Telecommunications	Canada	7.40	
TELUS	Telecommunications	Canada	7.00	
WESTON GEORGE	Personal Care, Drug & Grocery Stores	Canada	5.24	
CCL INDS.'B'	Industrial Goods & Services	Canada	4.16	
National Bank of Canada	Banks	Canada	3.91	
Fortis Inc.	Utilities	Canada	3.43	
Royal Bank of Canada	Banks	Canada	3.26	
Great-West Lifeco Inc.	Insurance	Canada	3.05	
Rogers Communications Inc. Cl	Telecommunications	Canada	2.78	

 $^{\rm 5}$ Based on the composition as of Jul. 31, 2023