

# STOXX® CHINA A 900 MINIMUM VARIANCE UNCONSTRAINED INDEX

## Index description

The STOXX® China A 900 Minimum Variance Unconstrained Index weights the components of the underlying STOXX® China A 900 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 (CNY bn.)		Components (CNY bn.)				Component weight (%)		Turnover (%)
	Full	Free-float	Mean	Median	Largest	Smallest	Largest	Smallest	Last 12 months
STOXX China A 900 Minimum Variance Unconstrained Index	N/A	743.6	4.0	2.4	42.2	0.2	5.7	0.0	21.9
STOXX China A 900 Index	48,030.5	22,734.4	25.3	12.9	941.3	3.4	4.1	0.0	8.3

## Supersector weighting (top 10)



## Country weighting



## Risk and return figures<sup>1</sup>

Index returns	Return (%)					Annualized return (%)				
	Last month	YTD	1Y	3Y	5Y	Last month	YTD	1Y	3Y	5Y
STOXX China A 900 Minimum Variance Unconstrained Index	-0.1	12.2	15.9	35.4	25.8	N/A	N/A	16.0	10.7	4.8
STOXX China A 900 Index	-4.6	-0.9	-4.0	7.9	11.0	N/A	N/A	-4.0	2.6	2.1
Index volatility and risk	Annualized volatility (%)					Annualized Sharpe ratio <sup>2</sup>				
STOXX China A 900 Minimum Variance Unconstrained Index	19.3	12.1	12.0	13.9	15.0	N/A	N/A	1.2	0.7	0.3
STOXX China A 900 Index	11.1	11.8	15.0	17.9	19.7	N/A	N/A	-0.3	0.1	0.1
Index to benchmark	Correlation					Tracking error (%)				
STOXX China A 900 Minimum Variance Unconstrained Index	0.7	0.7	0.8	0.9	0.9	13.6	8.7	8.3	9.0	8.7
Index to benchmark	Beta					Annualized information ratio				
STOXX China A 900 Minimum Variance Unconstrained Index	1.4	0.8	0.7	0.7	0.7	3.8	3.4	2.2	0.7	0.2

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

<sup>2</sup> Based on EURIBOR1M

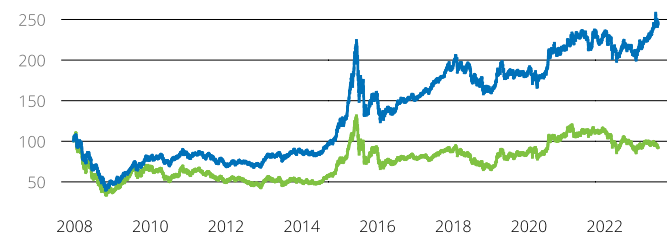
(CNY, gross return), all data as of May 31, 2023

## STRATEGY INDICES

## STOXX® CHINA A 900 MINIMUM VARIANCE UNCONSTRAINED

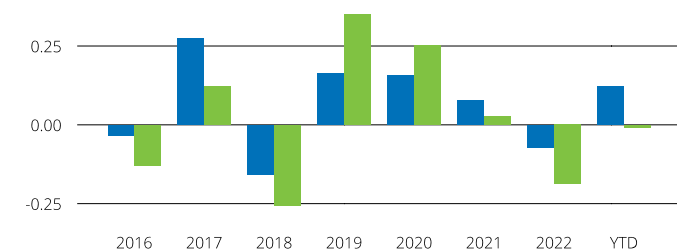
## Fundamentals (for last 12 months)

Index	Price/earnings incl. negative		Price/earnings excl. negative		Price/ book	Dividend yield (%) <sup>3</sup>	Price/ sales	Price/ cash flow
	Trailing	Projected	Trailing	Projected	Trailing	Trailing	Trailing	Trailing
STOXX China A 900 Minimum Variance Unconstrained Index	10.5	8.5	9.4	8.4	0.9	4.2	0.7	224.3
STOXX China A 900 Index	15.7	11.7	13.1	11.6	1.5	2.1	1.0	-31.9

Performance and annual returns<sup>4</sup>

— STOXX® China A 900 Minimum Variance Unconstrained Index

— STOXX® China A 900 Index



■ STOXX® China A 900 Minimum Variance Unconstrained Index

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## Methodology

On the basis of the underlying index, a covariance matrix is set up by determining the correlations 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 CNY	CH0340519658	SA9CUNGC		.SA9CUNGC
Gross Return CNY	CH0340519658	SA9CUNGC		.SA9CUNGC
Net Return CNY	CH0340519666	SA9CUNC	SA9CUNC INDEX	.SA9CUNC
Net Return CNY	CH0340519666	SA9CUNC	SA9CUNC INDEX	.SA9CUNC
Net Return CNY	CH0340519666	SA9CUNC	SA9CUNC INDEX	.SA9CUNC
Price CNY	CH0340519674	SA9CUNN		.SA9CUNN
Price CNY	CH0340519674	SA9CUNN		.SA9CUNN
Gross Return EUR	CH0340519591	SA9CUNGR		.SA9CUNGR
Gross Return EUR	CH0340519591	SA9CUNGR		.SA9CUNGR
Net Return EUR	CH0340519609	SA9CUNR		.SA9CUNR

Complete list available here: [www.stoxx.com/data/vendor\\_codes.html](http://www.stoxx.com/data/vendor_codes.html)

## Quick facts

Weighting	Optimization
Cap factor	4.5% / 8% / 35%
No. of components	Variable
Review frequency	Monthly
Inception date	Oct. 21, 2016

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 customization in almost unlimited forms for example in terms of component selection, weighting schemes and personalized calculation methodologies.

<sup>3</sup> gr. div. yield is calculated as gr. return index return minus price index return

<sup>4</sup> STOXX data from Dec. 21, 2007 to May 31, 2023

(CNY, gross return), all data as of May 31, 2023

## STOXX® CHINA A 900 MINIMUM VARIANCE UNCONSTRAINED INDEX

Top 10 Components<sup>5</sup>

Company	Supersector	Country	Weight (%)
AGRICULTURAL BANK OF CHINA 'A'	Banks	China	5.67
INDSTR & COM. BK. OF CHINA 'A'	Banks	China	5.14
BANK OF CHINA 'A'	Banks	China	4.00
BANK OF COMMS. 'A'	Banks	China	3.90
CHINA CON. BANK 'A'	Banks	China	3.78
CHINA YANGTZE PWR. 'A'	Utilities	China	3.23
Daqin Railway 'A'	Industrial Goods & Services	China	1.99
CRRC 'A'	Industrial Goods & Services	China	1.86
PETROCHINA 'A'	Energy	China	1.71
Haid Group 'A'	Food, Beverage & Tobacco	China	1.70

<sup>5</sup> Based on the composition as of May 31, 2023