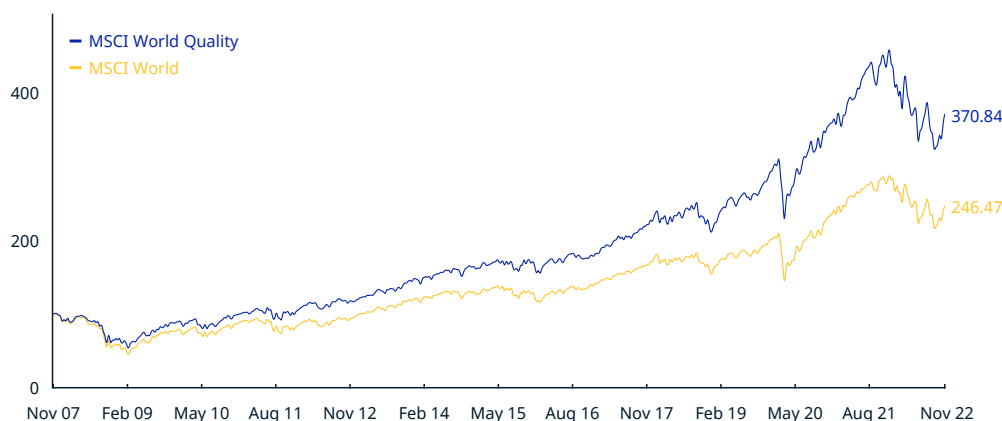


# MSCI World Quality Index (USD)

The MSCI World Quality Index is based on MSCI World, its parent index, which includes large and mid cap stocks across 23 Developed Market (DM) countries\*. The index aims to capture the performance of quality growth stocks by identifying stocks with high quality scores based on three main fundamental variables: high return on equity (ROE), stable year-over-year earnings growth and low financial leverage. The MSCI Quality Indexes complement existing MSCI Factor Indexes and can provide an effective diversification role in a portfolio of factor strategies.

## CUMULATIVE INDEX PERFORMANCE – GROSS RETURNS (USD) (NOV 2007 – NOV 2022)



## ANNUAL PERFORMANCE (%)

Year	MSCI World Quality	MSCI World
2021	26.10	22.35
2020	22.73	16.50
2019	36.70	28.40
2018	-5.06	-8.20
2017	26.64	23.07
2016	5.12	8.15
2015	4.25	-0.32
2014	9.01	5.50
2013	27.74	27.37
2012	13.66	16.54
2011	4.43	-5.02
2010	11.36	12.34
2009	33.49	30.79
2008	-33.47	-40.33

## INDEX PERFORMANCE – GROSS RETURNS (%) (NOV 30, 2022)

	1 Mo	3 Mo	1 Yr	YTD	ANNUALIZED				Since Jun 30, 1994
					3 Yr	5 Yr	10 Yr	Since Jun 30, 1994	
MSCI World Quality	8.32	4.84	-15.17	-18.35	9.42	10.67	12.13	11.08	
MSCI World	7.00	4.10	-10.42	-14.12	8.04	7.90	10.12	7.76	

## FUNDAMENTALS (NOV 30, 2022)

Div Yld (%)	P/E	P/E Fwd	P/BV
1.74	19.59	20.00	6.18
2.08	17.98	15.92	2.84

## INDEX RISK AND RETURN CHARACTERISTICS (JUN 01, 1994 – NOV 30, 2022)

	Beta	Tracking Error (%) <sup>1</sup>	Turnover (%) <sup>1</sup>	ANNUALIZED STD DEV (%) <sup>2</sup>			SHARPE RATIO <sup>2,3</sup>			Since Jun 01, 1994	MAXIMUM DRAWDOWN	
				3 Yr	5 Yr	10 Yr	3 Yr	5 Yr	10 Yr		(%)	Period YYYY-MM-DD
MSCI World Quality	0.90	4.53	21.89	20.45	18.01	14.40	0.51	0.59	0.81	0.63	48.01	2007-10-31–2009-03-09
MSCI World	1.00	0.00	2.31	20.56	17.95	14.43	0.45	0.44	0.69	0.40	57.46	2007-10-31–2009-03-09

<sup>1</sup> Last 12 months <sup>2</sup> Based on monthly gross returns data <sup>3</sup> Based on NY FED Overnight SOFR from Sep 1 2021 & on ICE LIBOR 1M prior that date

\* Developed Market countries include: Australia, Austria, Belgium, Canada, Denmark, Finland, France, Germany, Hong Kong, Ireland, Israel, Italy, Japan, Netherlands, New Zealand, Norway, Portugal, Singapore, Spain, Sweden, Switzerland, the UK and the US.

The MSCI World Quality Index was launched on Dec 18, 2012. 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**

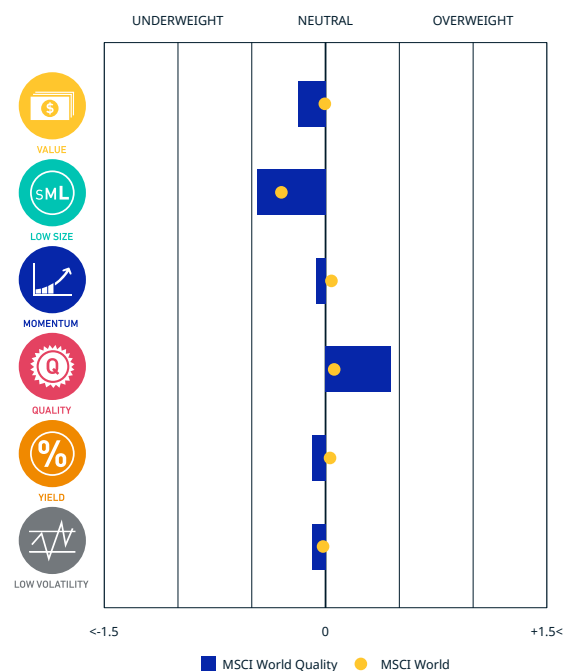
	MSCI World Quality	MSCI World
<b>Number of Constituents</b>	302	1,507
	Weight (%)	
<b>Largest</b>	5.21	4.58
<b>Smallest</b>	0.01	0.00
<b>Average</b>	0.33	0.07
<b>Median</b>	0.10	0.03

**TOP 10 CONSTITUENTS**

	Country	Index Wt. (%)	Parent Index Wt. (%)	Sector
APPLE	US	5.21	4.58	Info Tech
MICROSOFT CORP	US	4.87	3.47	Info Tech
JOHNSON & JOHNSON	US	2.97	0.90	Health Care
UNITEDHEALTH GROUP	US	2.83	0.98	Health Care
NVIDIA	US	2.81	0.81	Info Tech
VISA A	US	2.47	0.68	Info Tech
ALPHABET A	US	2.27	1.16	Comm Svcs
ALPHABET C	US	2.15	1.10	Comm Svcs
NESTLE	CH	2.06	0.64	Cons Staples
MASTERCARD A	US	2.02	0.59	Info Tech
<b>Total</b>		<b>29.64</b>	<b>14.91</b>	

**FACTORS - KEY EXPOSURES THAT DRIVE RISK AND RETURN**

**MSCI FACTOR BOX**



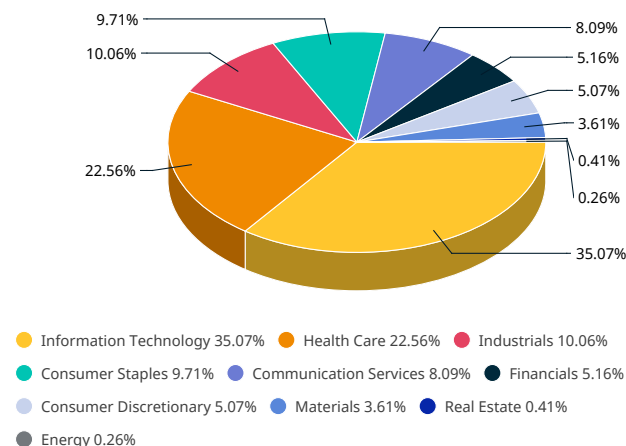
**MSCI FaCS**

- 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

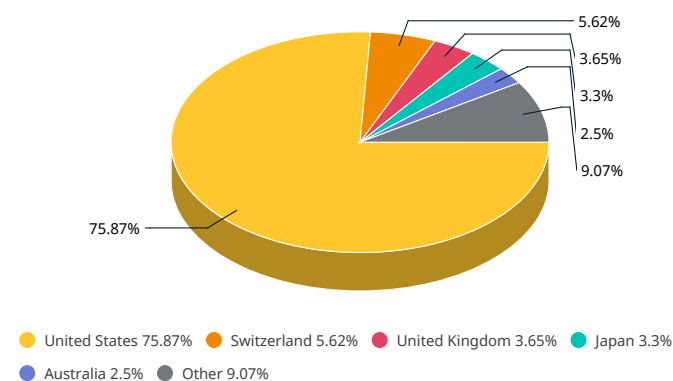
MSCI FaCS provides absolute factor exposures relative to a broad global index - MSCI ACWI IMI.

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

**SECTOR WEIGHTS**



**COUNTRY WEIGHTS**



## INDEX FRAMEWORK

The MSCI Quality Indexes aim to capture the quality factor with a simple and transparent methodology that ensures reasonably high trading liquidity and investment capacity of constituent companies, as well as moderate index turnover. A quality score for each security is calculated by combining Z scores of three winsorized fundamental variables—Return on Equity, Debt to Equity and Earnings Variability. MSCI then averages the Z scores of each of the three fundamental variables to calculate a composite quality Z score for each security, and then ranks all constituents of the parent index based on their quality scores.

The MSCI Quality Indexes are constructed with a fixed number of securities approach. A fixed number of securities with the highest positive quality scores is determined for each MSCI Quality Index with the goal of achieving high exposure to the quality factor while maintaining sufficient index market capitalization and number of securities coverage. All securities eligible for inclusion in the MSCI Quality Indexes are weighted by the product of their market cap weight in the parent index and their quality score. Issuer weights are capped at 5%.

The Quality indexes are rebalanced semi-annually, as of the close of the last business day of November and May.

This summary is provided for illustrative purposes only and does not include all material elements of the index or its methodology. For a complete description of the index methodology, please see [Index methodology - MSCI](#).

## 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 [www.msci.com](http://www.msci.com).

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