

# **Bloomberg Inflation Sensitive Equity Index Methodology**

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## Table of Contents

Introduction	4
Section 1: Index Overview	4
Section 2: Index Eligibility Process	4
Parent Universe	4
Sector Eligibility	4
Exchange Eligibility	4
Liquidity Eligibility	4
Market Capitalization Eligibility	4
Geographic Eligibility	5
Multiple Classes of Securities	5
Section 3: Index Construction Process	5
Index Selection Process	5
Rank Market Cap Sector Screening	5
Debt Removal Screening	5
Inflation Beta Determination	5
Inflation Beta Aggregation Screening	6
Free CashFlow Yield Screening	6
Index Weighting	6
Index Rebalance and Reconstitution	7
Selection Date	7
Index Share Determination Date	7
Index Announcement Date	7
Index Effective Date	7
Section 4: Index Maintenance	7
Index Calculation	7
Deletion Policy	7
Addition Policy	7
Replacement Policy	8
Corporate Actions	8
Stakeholder Engagement	8
Risks	8
Limitations of the Index	8
Section 5: Benchmark Oversight and Governance	9
Benchmark Governance, Audit and Review Structure	9
Index and Data Reviews	9
Internal and External Reviews	10
Expert Judgement	10
Data Providers and Data Extrapolation	11
Conflicts of Interest	11
Restatement Policy	11

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Appendix I: BQL Formulas	12
<b>Appendix II: ESG Disclosure</b>	13
<b>Disclaimer</b>	14

## Introduction

The Bloomberg Inflation Sensitive Equity Index is constructed to track the performance of companies with a sector classification of Energy, Industrials, Materials or Real Estate that demonstrate a strong positive correlation with inflation. The Index aims to represent an equally weighted basket consisting of fifty companies, determined by their derived beta ranking, from the [Bloomberg US 3000 Index](#).

## Section 1: Index Overview

Name	Bloomberg Inflation Sensitive Equity Index
Ticker	BINFLS (Price Return) BINFLST (Total Return) BINFLSN (Net Return)
Currency	USD
Inception Date	2022-12-07
Base Date	2007-07-23
Publication	Weekdays

## Section 2: Index Eligibility Process

### Parent Universe

In order to be eligible for the Bloomberg Inflation Sensitive Equity Index, a security must be a part of the [Bloomberg US 3000 Index](#) (B3000) as of the Index Selection Date.

### Sector Eligibility

A security must be classified according to the following BICS codes.

BICS Code	BICS Level	BICS Name
13	1	Energy
15	1	Real Estate
17	1	Industrials
18	1	Materials

### Exchange Eligibility

All exchanges that are eligible in AGGE are eligible for inclusion in the Index.

### Liquidity Eligibility

A security must have a minimum average 90-calendar day value traded of \$5 million. The average 90-calendar day value trade is determined at the composite level of a particular security.

### Market Capitalization Eligibility

A security must have a minimum company free float market capitalization of \$500 million.

## Geographic Eligibility

All securities must satisfy either:

- 1) Bloomberg Country of Risk of United States, or
- 2) Domiciled in Bahamas, Bermuda, British Virgin Islands, Cayman Islands, Republic of Ireland, Isle of Man, Jersey, Luxembourg, Monaco, Netherlands, Panama, Puerto Rico, Singapore or Switzerland.

## Multiple Classes of Securities

One security per issuer is permitted. If an issuer has multiple securities, then the security currently in the Index will take precedence if it has met all other criteria for eligibility. Otherwise, the security with the highest average 90-calendar day daily value traded is eligible for inclusion in the Index.

## Section 3: Index Construction Process

### Index Selection Process

#### Rank Market Cap Sector Screening

All securities that satisfy the Index Eligibility Process in Section 2 are eligible for inclusion in the Index. Further, the securities are grouped into categories based on their BICS classification. The top 50 equities by company free float market capitalization, within each of the categories, are selected for inclusion for a total of 200 equities in the Index.

#### Debt Removal Screening

Within each sector, remove the worst 10%\*\* of companies as determined by their Debt to Market Capitalization Ratio.

$$DMCR_i = \frac{\text{TotalDebt}_i}{\text{CurMktCap}_i}$$

Where:

$DMCR_i$	Debt to Market Capitalization Ratio of security i
TotalDebt <sub>i</sub>	Total Short Term and Long Term Debt of security i * as defined in Appendix A: BQL Formulas
CurMktCap <sub>i</sub>	Total Market Capitalization of security i * as defined in Appendix A: BQL Formulas

\*\* The percentile is determined by first determining the rank of a security, where a lower numerical rank value implies lower Debt to Market Capitalization Ratio (e.g. a rank of 1 is best, 2 is second-best, etc...). The rank value is then divided by the total number of eligible securities. Then, any security that is less than or equal to the 90<sup>th</sup> percentile, is included.

#### Inflation Beta Determination

Rank the remaining securities by beta to the 2-year inflation breakeven and the Bloomberg Commodities Index. Betas are calculated on each selection date based on the trailing 52 weekly data points of returns. For each selection date, 52 weeks count backwards starting on and inclusive of the selection date. Positive and higher betas received a better rank.

The tickers represented in the analysis are :

USGGBE02 Index : US Breakeven 2 Year

BCOMTR Index : Bloomberg Commodity Total Return Index

The commodity inflation beta ( $\beta_1^{BCOM}$ ) is calculated by regressing the weekly total returns of stock i on the weekly *total returns* of the BCOMTR Index.

$$r_{i,t} = \beta_0^{BCOM} + \beta_1^{BCOM} BCOM\_RET_t + \epsilon_{i,t}$$

The breakeven inflation beta ( $\beta_1^{BE}$ ) is calculated by regressing the weekly total returns of stock i on the weekly *changes* of the USGGBE02 Index.

$$r_{i,t} = \beta_0^{BE} + \beta_1^{BE} \Delta BE_t + \epsilon_{i,t}$$

, where  $\Delta BE_t = BE_t - BE_{t-1 \text{ week}}$ . For example, if inflation expectation  $BE_t$  today is 2.5% and 7 days ago it was 2.1%,  $\Delta BE_t$  is 0.4%. On non-trading days, breakeven values are filled using previous trading day values.

The explicit formula to calculate the beta for BCOMTR and BE is as per below:

$$beta = \frac{n \cdot \sum x \cdot y - \sum x \cdot \sum y}{n \cdot \sum x^2 - (\sum x)^2}$$

Where  $n$  is the number of observation,  $x$  is the weekly total returns of stock i and  $y$  is the weekly total returns of the BCOMTR Index or the weekly changes of the USGGBE02 Index.

\*\* The Beta calculation will only be performed if there are at least 13 weekly equity prices represented for an individual security. In the event that a security cannot satisfy the required amount of historical prices, it will be excluded from the basket consideration.

### **Inflation Beta Aggregation Screening**

Remaining securities are ranked within each sector by their respective inflation betas for BCOMTR and BE respectively. The two ranks are added together and ranked once more within each sector to become the Combined Inflation Beta Rank score.

Within each sector, select the top ranked 22 securities (~50% of securities because there are by this stage 180 securities in total and 45 securities per sector) as determined by their Combined Inflation Beta Rank.

In the event that there is a tie at the security level when deriving the Combined Inflation Beta Rank, the security with the higher IntervalAverageTurnover90Days will take priority in the sector ranking.

### **Free CashFlow Yield Screening**

Of the remaining securities, select the top 50 equities, based on trailing 12-month Free Cash Flow Yield, with a sector limit of 20 companies per BICS grouping.

$$FreeCashFlowYield_i = \frac{FCF_i}{Price_i}$$

Where:

FreeCashFlowYield<sub>i</sub> Free Cash Flow Yield of security i

FCF<sub>i</sub> Free Cash Flow Per Share of security i \* as defined in Appendix A: BQL Formulas

Price<sub>i</sub> Price of security i \* as defined in Appendix A: BQL Formulas

### **Index Weighting**

The Index is equally weighted such that:

$$W_i = \frac{1}{M}$$

Where:

$W_i$  Weight of security i  
M Number of Index Members

## Index Rebalance and Reconstitution

The Index is reconstituted semi-annually in January and July.

### Selection Date

Last Index Business Date of June and December

### Index Share Determination Date

Capping and weighting are determined using market data as the last Index Business Date of December and June.

### Index Announcement Date

An Index Announcement Date shall be the 2<sup>nd</sup> Friday in January and July.

### Index Effective Date

The Index Reconstitutions go effective at the close of trading on the 3<sup>rd</sup> Friday in January and July. To remove ambiguity, Index Reconstitutions will be reflected at the open of the Monday following the 3<sup>rd</sup> Friday.

		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Selection Date</b>	End of Month						X						X
<b>Share Determination</b>	End of Month						X						X
<b>Announcement Date</b>	2 <sup>nd</sup> Friday	X						X					
<b>Effective Date</b>	3 <sup>rd</sup> Friday	X						X					

## Section 4: Index Maintenance

### Index Calculation

Refer to the [Bloomberg Global Equity Indices Methodology](#) for index calculation details.

### Deletion Policy

Index securities are not deleted outside of the semi-annual Index Reconstitution except in the case of a delisting.

### Addition Policy

Index securities are not added outside of the Index reconstitution.

- IPOs that qualify to be fast tracked to the underlying parent universe are not added to the Index.
- For a spin-off, a child distributed from an Index Member is added to the Index on the ex-date and will remain in the Index if it qualifies to

remain in the underlying parent universe. The security will then be assessed as part of the forthcoming Index Reconstitution.

## Replacement Policy

Index securities are not replaced outside of the Index reconstitution.

## Corporate Actions

Refer to [Bloomberg Global Equity Indices Non-Market Cap Corporate Action Methodology](#) for the treatment of corporate actions.

## Stakeholder Engagement

Bloomberg Index Services Limited ("BISL") is in regular and ongoing engagement with its users through various channels, including via help desks, sales personnel, and direct communication with product personnel. To help ensure that the Index remains an accurate representation of global equities defined in the methodology, BISL endeavors to meaningfully incorporate these engagements into improvements in processes and service. Prior to any material change that might meaningfully impact users, BISL consults more broadly with stakeholders, where appropriate, before a recommendation is presented to the Product, Risk & Operations Committee ("PROC") for approval. This concept of shared ownership enables BISL to produce the most relevant Index and helps ensure responsiveness to user needs.

## Risks

The following is a summary of certain risks associated with the Index but is not meant to be an exhaustive list of all risks associated with the Index. Although the Index is designed to be representative of the markets it is measuring, it may not be representative of every use case. There is also inherent, though transparent, judgment in its construction, as outlined in this methodology. The Index is designed for general applicability and not to address the individual circumstances and needs of users. BISL does not advise about the usefulness of the Index to a particular circumstance; users are therefore encouraged to seek their own counsel for such matters. This methodology is subject to change, which may impact its usefulness to users. Although efforts will be made to alert users of any change, every individual user may not be aware of them. Such changes may also significantly impact the usefulness of the Index. BISL may also decide to cease publication of this Index. BISL maintains internal policies regarding user transitions, but no guarantee is given that an adequate alternative is available generally or for a particular use case. Markets for stocks, as with all markets, can be volatile. As the Index is designed to measure this market, it could be materially impacted by market movements, thus significantly affecting the use or usefulness of the Index for some or all users. Also, certain equity markets are less liquid than others – even the most liquid markets may suffer periods of illiquidity. Illiquidity can have an impact on the quality or amount of data available to BISL for calculation and may cause the Index to produce unpredictable results.

## Limitations of the Index

Though the Index is designed to be representative of the markets it measures or otherwise aligns with its stated objective, it may not be representative in every case or achieve its stated objective in all instances. It is designed and calculated strictly to follow the rules of this methodology, and any Index level or other output is limited in its usefulness to such design and calculation.

Markets can be volatile, including those market interests that the Index measures or upon which the Index is dependent to achieve its stated objective. For example, illiquidity can have an impact on the quality or amount of data available to the administrator for calculation and may cause the Index to produce unpredictable or unanticipated results.



In addition, market trends and changes to market structure may render the objective of the Index unachievable or to become impractical to replicate by investors.

In particular, the Index measures global equity markets. As with all equity investing, the Index is exposed to market risk. The value of equities fluctuates with the changes in economic forecasts, interest rate policies established by central banks and perceived geo-political risk. The Index does not consider the cost of replication and as a result a tracking portfolio's returns will underperform the Index with all else equal. As the Index is designed to measure those markets, it could be materially impacted by market movements, thus significantly impacting the use or usefulness of the fixings for some or all users.

In addition, certain Sub-Indices may be designed to measure smaller subsets of the Index such as specific styles, size, and sector. Some of these Sub-Indices have very few qualifying constituents and may have none for a period of time. During such period, the Sub-Index will continue to be published at its last value, effectively reporting a 0% return, until new constituents qualify. If no constituents are expected to qualify (due to changes in market structure and other factors), the Sub-Index may be discontinued. In such an event, this discontinuation will be announced to index users.

## Section 5: Benchmark Oversight and Governance

### Benchmark Governance, Audit and Review Structure

BISL uses two primary committees to provide overall governance and effective oversight of its benchmark administration activities:

- The Product, Risk & Operations Committee ("PROC") provides direct governance and is responsible for the first line of controls over the creation, design, production and dissemination of benchmark Indices, strategy Indices and fixings administered by BISL, including the Index. The PROC is composed of Bloomberg personnel with significant experience or relevant expertise in relation to financial benchmarks. Meetings are attended by Bloomberg Legal & Compliance personnel. Nominations and removals are subject to review by the BOC, discussed below.
- The oversight function is provided by Bloomberg's Benchmark Oversight Committee ("BOC"). The BOC is independent of the PROC and is responsible for reviewing and challenging the activities carried out by the PROC. In carrying out its oversight duties, the BOC receives reports of management information both from the PROC as well as Bloomberg Legal & Compliance members engaged in second level controls.

On a quarterly basis, the PROC reports to the BOC on governance matters, including but not limited to client complaints, the launch of new benchmarks, operational incidents (including errors & restatements), major announcements and material changes concerning the benchmarks, the results of any reviews of the benchmarks (internal or external) and material stakeholder engagements.

### Index and Data Reviews

The Index Administrator will periodically review the Indices (both the rules of construction and data inputs) on a periodic basis, not less frequently than annually, to determine whether they continue to reasonably measure the intended underlying market interest, the economic reality, or otherwise align with their stated objective. More frequent reviews may be done in response to extreme market events and/or material changes to the applicable underlying market interests.

Criteria for data inputs include reliable delivery and active underlying markets. Whether an applicable market is active depends on whether there are sufficient numbers of transactions (or other indications of price, such as indicative quotes) in the applicable constituents (or similar underlying constituent elements) that a price (or other value, as applicable) may be supplied for such constituent(s).

Other than as set forth in this methodology, there are no minimum liquidity requirement for Index constituents and/or minimum requirements or standards for the quantity or quality of the input data. The review will be conducted by product managers of the Index in connection with the periodic rebalancing of the Index or as otherwise appropriate.

Any resulting change to the methodology deemed to be material (discussed below) will be subject to the review of the PROC under the oversight of the BOC, each of which committees shall be provided all relevant information and materials it requests relating to the change. Details regarding the PROC and BOC are described above. Material changes will be reflected and tracked in updated versions of this methodology.

Material changes related to the Index will be made available in advance to affected stakeholders whose input will be solicited. The stakeholder engagement will set forth the rationale for any proposed changes as well as the timeframe and process for responses. The Index Administrator will endeavor to provide at least two weeks for review prior to any material change going into effect. In the event of exigent market circumstances, this period may be shorter. Subject to requests for confidentiality, stakeholder feedback and the Index Administrator's responses will be made accessible upon request.

In determining whether a change to an Index is material, the following factors shall be taken into account:

- The economic and financial impact of the change;
- Whether the change affects the original purpose of the Index; and/or
- Whether the change is consistent with the overall objective of the Index and the underlying market interest it seeks to measure.

## **Internal and External Reviews**

BISL's Index administration is also subject to Bloomberg's Compliance function, which periodically reviews various aspects of its businesses to determine whether it is adhering to applicable policies and procedures, and assess whether applicable controls are functioning properly. In addition, Bloomberg may from time to time appoint an independent external auditor with appropriate experience and capability to review adherence to benchmark regulation. The frequency of such external reviews will depend on the size and complexity of the operations and the breadth and depth of Index use by stakeholders.

## **Expert Judgement**

The Index is rules-based, and its construction is designed to consistently produce values without the exercise of expert judgment or discretion. Nevertheless, BISL may use expert judgment or discretion with regards to the following:

- Index restatements
- Extraordinary circumstances during a market emergency
- Data interruptions, issues, and closures
- Significant acquisitions involving a non-Index company

When expert judgment or discretion is required, BISL undertakes to be consistent in its application, with recourse to written procedures outlined in the methodology of the Index and internal procedures manuals. In certain circumstances exercises of expert judgment or discretion are reviewed by senior members of BISL management and Bloomberg Compliance teams, and are reported to the PROC, BISL's governance committee, which operates under the supervision of BISL's oversight function, the BOC. BISL also maintains and enforces a code of ethics to prevent conflicts of interest from inappropriately influencing index construction, production, and distribution, including the use of expert judgment or discretion.

## Data Providers and Data Extrapolation

The Index is rules-based, and its construction is designed to consistently produce Index levels without the exercise of discretion. The Index is produced without the interpolation or extrapolation of input data.

In addition, the Index Administrator seeks to avoid contributions of input data that may be subject to the discretion of the source of such data and instead seeks to use input data that is readily available and/or distributed for a number of non-index or benchmark creation purposes.

Accordingly, the index requires no 'contributors' to produce and no codes of conduct with any such sources are required.

## Conflicts of Interest

The Index confers on BISL discretion in making certain determinations, calculations and corrections from time to time. In making those determinations, calculations and corrections, the Index Administrator has no obligation to take the needs of any Product Investor or any other party into consideration. BISL is committed to avoiding and, where necessary, managing actual or potential conflicts of interest in the BISL decision-making process and has established a Conflicts of Interest Policy to minimize or resolve actual or potential conflicts of interest. BISL does not create, trade or market Products.

## Restatement Policy

BISL strives to provide accurate calculation of its indices. However, to the extent a material error in index levels is uncovered following publication and dissemination, a public notification will be made alerting of such error and the expected date of a revised publication, if warranted.

An error to an equity Index in excess of 3 basis point over one day will automatically be reviewed for restatement. If the Index in error is a Primary Index (listed below) and has occurred in the last 2 business days, a restatement will be made for all impacted indices. Errors occurring beyond the last 2 business days will be evaluated on a case-by-case basis.

Real-time indices are not considered for restatement, all real-time dissemination is considered indicative.

The following factors will be reviewed to determine whether to restate. Not all conditions need to be present to warrant a restatement, and certain factors may be more determinative than others depending on the circumstances of the given error.

- The relative importance of the data field impacted by the error;
- When the error occurred and when it was discovered;
- The number of indices and sub-indices affected;
- Whether the impacted indices are linked to tradable products;
- The magnitude of the error;
- The burden of restatement on client re-processing relative to the impact of the error;
- The impact of the restatement on analytical tools.

## Appendix I: BQL Formulas

Reference	Field	BQL Query
CurMktCap	CUR_MKT_CAP	bq.data.cur_mkt_cap(dates=i,currency='USD',fill='PREV',ca_adj='SPLITS')
TotalDebt	SHORT_AND_LONG_TERM_DEBT	bq.data.SHORT_AND_LONG_TERM_DEBT(dates=i,currency='USD',fa_filing_status='MRXP')
FCF	FREE_CASH_FLOW_PER_SH	bq.data.FREE_CASH_FLOW_PER_SH (dates=i,currency='USD',fa_period_type='LTM',fa_filing_status='MRXP',capital_changes_adjust='SPLITS')
EV	CURR_ENTP_VAL	bq.data.CURR_ENTP_VAL (fa_period_type='LTM', fa_filing_status='MRXP', currency='USD', as_of_date=i)
Price	PX_LAST	bq.data.PX_LAST(dates=selectiondate,fill='PREV',currency='USD',ca_adj='SPLITS')
ADTV	TURNOVER	bq.func.avg(bq.data.turnover(dates=bq.func.range(start=( i - timedelta(days=90)), end= i), currency='USD'))

## Appendix II: ESG Disclosure

<b>EXPLANATION OF HOW ESG FACTORS ARE REFLECTED IN THE KEY ELEMENTS OF THE BENCHMARK METHODOLOGY</b>	
<b>Item 1.</b> Name of the benchmark administrator.	Bloomberg Index Services Limited ("BISL")
<b>Item 2.</b> Type of benchmark or family of benchmarks.	Equities
<b>Item 3.</b> Name of the benchmark or family of benchmarks.	Bloomberg Inflation Sensitive Equity Index
<b>Item 4.</b> Does the benchmark methodology for the benchmark or family of benchmarks take into account ESG factors?	No
<p><b>Item 5.</b> Where the response to Item 4 is positive, please list below, for each family of benchmarks, those ESG factors that are taken into account in the benchmark methodology, taking into account the ESG factors listed in Annex II to Delegated Regulation (EU) 2020/1816.</p> <p>Please explain how those ESG factors are used for the selection, weighting or exclusion of underlying assets. The ESG factors shall be disclosed at an aggregated weighted average value at the level of the family of benchmarks.</p>	
(a) List of environmental factors considered:	Not applicable
(b) List of social factors considered:	Not applicable
(c) List of governance factors considered:	Not applicable
<p><b>Item 6.</b> Where the response to Item 4 is positive, please list below, for each benchmark, those ESG factors that are taken into account in the benchmark methodology, taking into account the ESG factors listed in Annex II to Delegated Regulation (EU) 2020/1816, depending on the relevant underlying asset concerned.</p> <p>Please explain how those ESG factors are used for the selection, weighting or exclusion of underlying assets. The ESG factors shall not be disclosed for each constituent of the benchmark, but shall be disclosed at an aggregated weighted average value of the benchmark.</p> <p>Alternatively, all of this information may be provided in the form of a hyperlink to a website of the benchmark administrator included in this explanation. The information on the website shall be easily available and accessible. Benchmark administrators shall ensure that information published on their website remains available for five years.</p>	
(a) List of environmental factors considered:	Not applicable
(b) List of social factors considered:	Not applicable
(c) List of governance factors considered:	Not applicable
Hyperlink to the information on ESG factors for each benchmark:	Not applicable
<b>Item 7.</b> Data and standards used	
(a) Data input. (i) Describe whether the data are reported, modelled or sourced internally or externally. (ii) Where the data are reported, modelled or sourced externally, please name the third party data provider.	Not applicable
(b) Verification and quality of data. Describe how data are verified and how the quality of those data is ensured.	Not applicable
(c) Reference standards Describe the international standards used in the benchmark methodology.	Not applicable
<b>Date on which information has been last updated and reason for the update:</b>	December 2022, Initial Launch

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### Take the next step.

For additional information, email [indexhelp@bloomberg.net](mailto:indexhelp@bloomberg.net) or press the <HELP> key twice on the Bloomberg Terminal\*

[bloomberg.com/indices](https://www.bloomberg.com/indices)

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<b>Frankfurt</b> +49 69 9204 1210	<b>Mumbai</b> +91 22 6120 3600	<b>São Paulo</b> +55 11 2395 9000	<b>Tokyo</b> +81 3 4565 8900