

Dubai

**Cbonds**

**AI-Powered  
Bond Search at  
Cbonds**

**13.11.2025**

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Founder Cbonds**

# Traditional bond search at Cbonds

The screenshot displays the Cbonds website's search interface. At the top, there's a browser window with the URL [cbonds.com/bonds/](https://cbonds.com/bonds/). The main search area is organized into several sections:

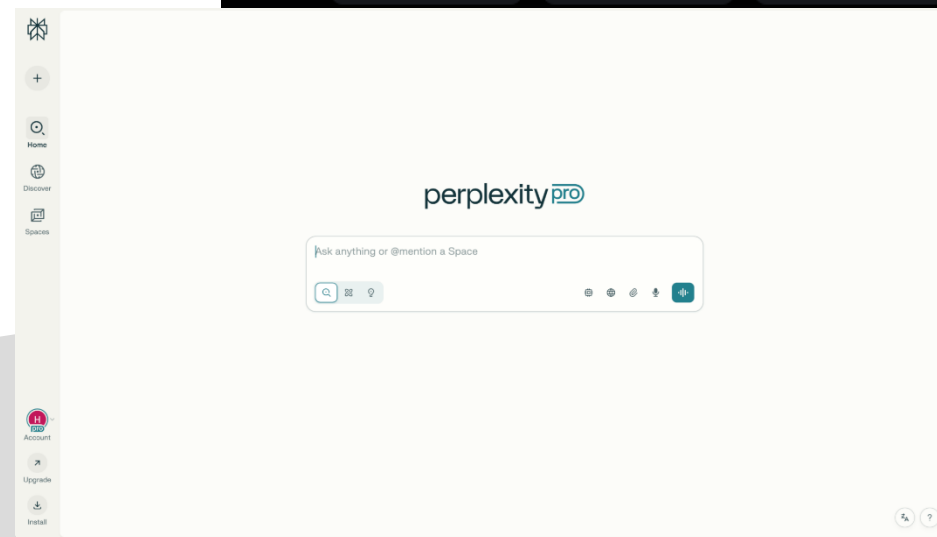
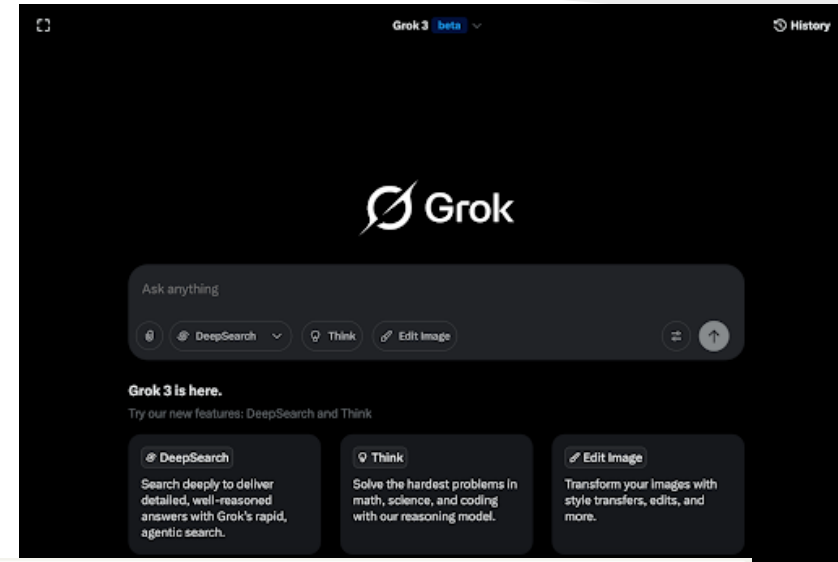
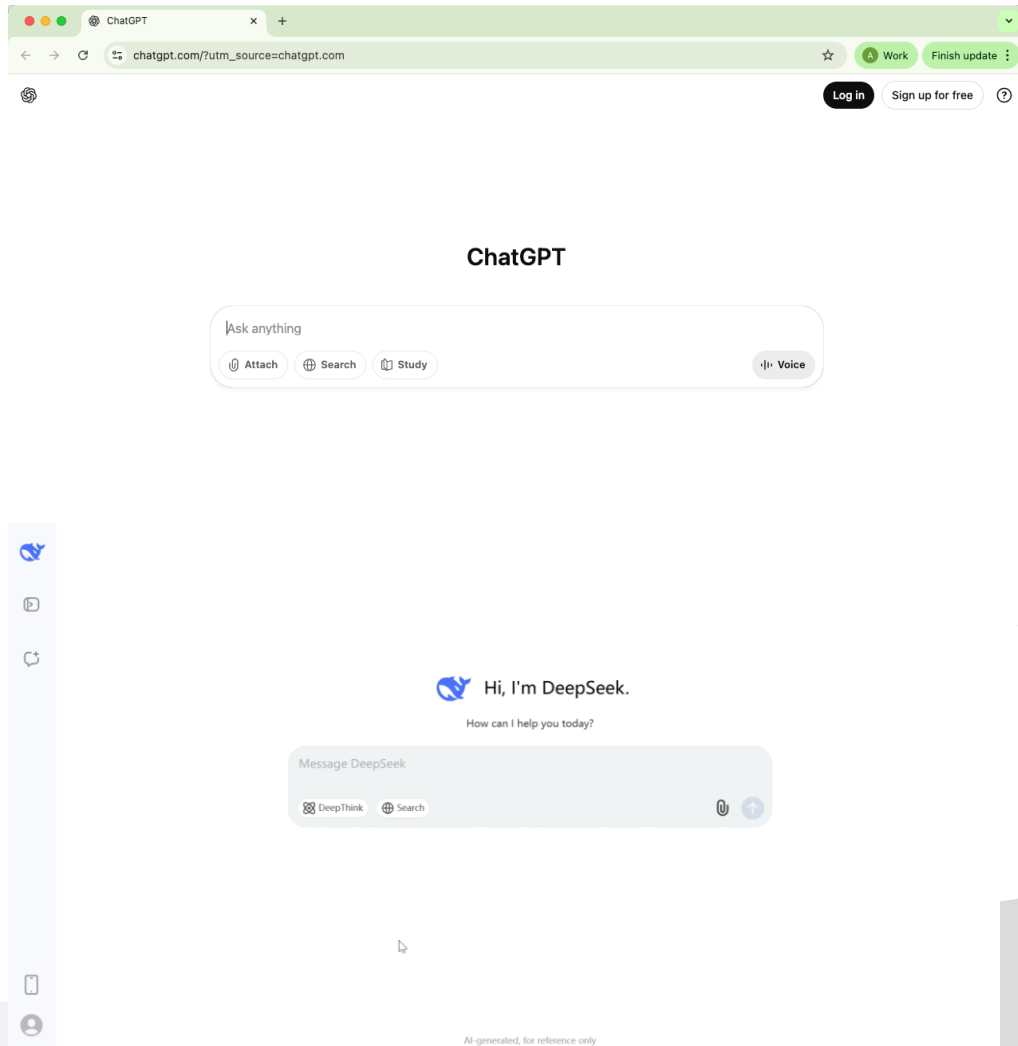
- Base**: Includes an Issuer search box, and dropdown menus for Region (0/8), Country (0/191), Sector (0/3), Industry (0/68), Status (1/9), Type (0/2), Currency (0/157), and Trading Ground (0/242).
- Price and Yield**: Fields for Price, % of face value (from to) and Yield, % (from to).
- Duration and Settlement**: Fields for Duration, years (from to) and Minimum Settlement Amount / Face value (from to).
- End of placement and Maturity**: Date pickers for End of placement (from to) and Maturity (from to), with checkboxes for "including additional placements" and "including put/call".
- Liquidity**: A dropdown menu for Liquidity (international bonds) (0/11).
- Ratings**: Includes dropdowns for Foreign currency issuer rating, Local currency issuer rating, and Issue rating, each with Agency and from/to sub-selects. A checkbox option is available: "Search only with ratings of issuer / issue / guarantor / surety".

At the bottom of the search area, there are buttons for "Search", "Save query", and "Create Index", along with a "Clear form" link. The Windows taskbar at the bottom shows the time as 14:21 on 10.11.2025.

Probably the best bond screener in the world... 😊

<https://cbonds.com/bonds/>

# Number of Domestic Bonds



# **Cbonds AI-Powered search: How it works**

**Cbonds AI-Powered Bond Search is an intelligent platform that allows you to search for and analyze bonds using simple, natural language—just as a user would ask a colleague analyst.**

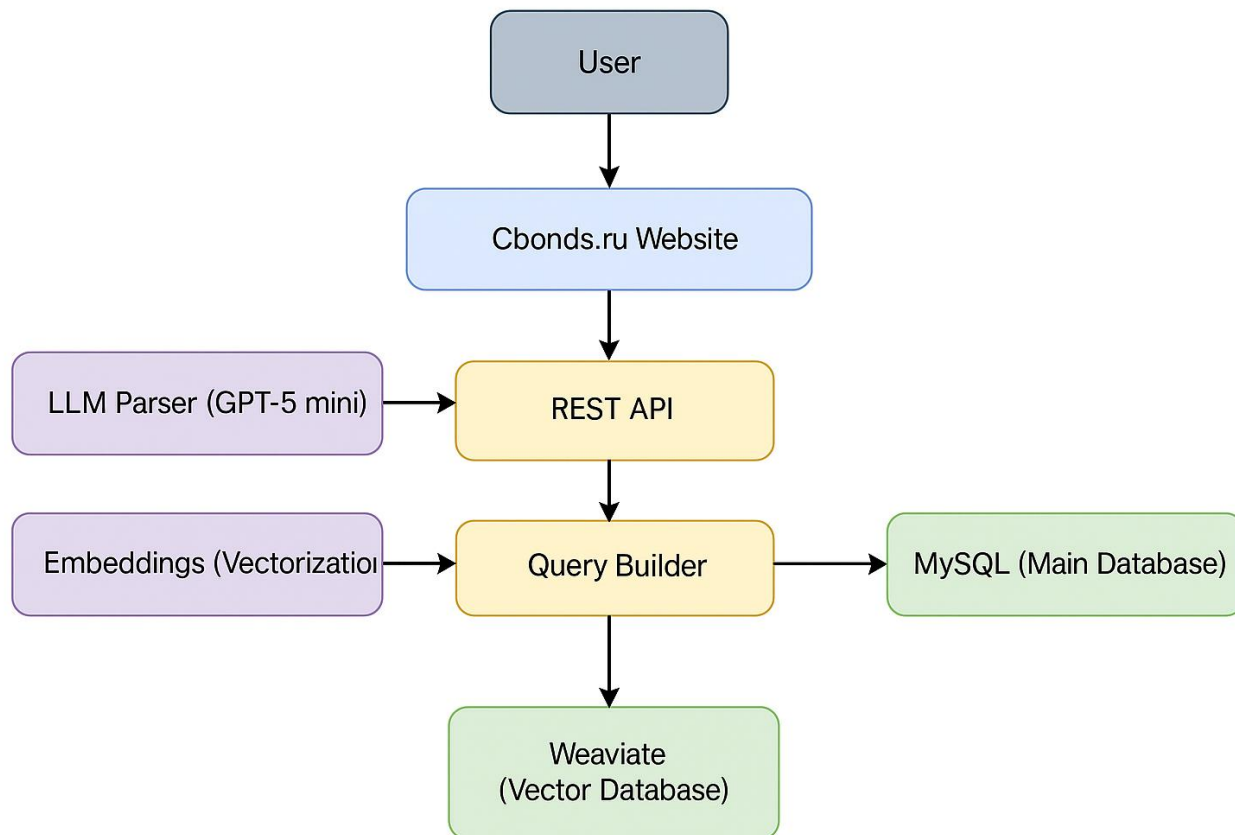
**The system understands the meaning of a query, determines which parameters need to be compared, automatically builds the correct filters, and performs the search.**

**Essentially, it is a "smart layer" between the user and the bond database, combining:**

- Natural language processing (LLM - GPT-5 mini model),**
- Parametric (structured fields) or hybrid (text + structured fields) search on the Weaviate vector database,**
- Traditional MySQL storage for detailed data.**

**This is a step away from manual filters and tables towards "semantic-level" search. The user states their objective, and the system itself selects the relevant bonds and returns the results, maintaining accuracy, acceptable speed, and search completeness.**

# Cbonds AI-Powered search: How it works



## Bond data is stored in MySQL and Weaviate.

In **MySQL** (relational DBMS) — all detailed parameters, the main and complete data storage.

In **Weaviate** (vector DB) — only search-related data, with a vector index for hybrid search.

A user query in natural language, submitted via a web form, is sent to the backend through our **REST API**.

The **REST API** calls the **LLM (OpenAI GPT-5 mini)**, which processes the query, interprets its meaning, and converts it into a **JSON structure** containing filters, sorting, and limits.

The **Query Builder** transforms the JSON into a **GraphQL query** for Weaviate and, optionally (if a hybrid search is needed rather than a purely parametric one), calls the **LLM embedder (OpenAI text-embedding-3-small)** to obtain the vector.

**Weaviate** performs a **parametric search** (filters only) or a **hybrid search** (vector + filters) and returns a list of IDs of the found securities.

**MySQL** retrieves all necessary information (name, etc.) for these securities by their IDs.

Full information about the list of securities is then returned to the user on the **Cbonds website** via the **REST API**.

# Cbonds AI-Powered Bond Search

The screenshot shows a web browser window with the URL [cbonds.com/ai-bonds/](https://cbonds.com/ai-bonds/). The page features a dark blue header with the Cbonds logo and a search bar containing the text "Quick search for bonds, stocks, funds, indices, companies, ISIN". Below the header is a navigation menu with options: Bond Screener, Watchlist & Portfolio, Bonds, Stocks, ETF & Funds, Indices, News & Research, Corporate Actions, Excel Add-in, and API. The main content area is titled "Smart Bond Search (AI-powered)" and includes a paragraph explaining the AI-powered search functionality. Below the text is a search input field with the placeholder "Enter search query ..." and a green "Search" button. A "Restrictions" link is also visible. The browser's taskbar at the bottom shows the Windows logo, search bar with "Поиск", and various application icons. The system tray displays the time as 12:37 on 12.11.2025.



<https://cbonds.com/ai-bonds/>

# Cbonds AI-Powered Bond Search

Find US corporate bonds in USD with a rating of at least BBB and a yield above 7%

Find US corporate bonds in USD with a rating of at least BBB and a yield above 7%



i Restrictions

Search

[Clear form](#)

Found: 75

Rate the search result:

Yes, all good!

No, the result is incorrect

Issue	Sector	Currency	End of placement	Maturity	Indicative yield, %	Outstanding amount	Modified duration
<a href="#">AB InBev Worldwide, 4.75% 15apr2058, USD</a>	corporate	USD	20/03/2018	15/04/2058	11.080	569,129,000	8.53
<a href="#">Affiliated Managers Group, 4.75% 30sep2060, USD</a>	corporate	USD	17/09/2020	30/09/2060	7.073	250,000,000	13.21
<a href="#">American Express Co, 4.804% 24oct2036, USD</a>	corporate	USD	20/10/2025	24/10/2036	7.243	2,000,000,000	0.42
<a href="#">Ares Finance Co, 4.125% 30jun2051, USD</a>	corporate	USD	24/06/2021	30/06/2051	7.023	450,000,000	0.59
<a href="#">AT&amp;T Inc, 6.65% 15dec2095, USD</a>	corporate	USD	25/10/2018	15/12/2095	7.747	32,050,000	10.49
<a href="#">AT&amp;T Inc, 7% 1dec2095, USD</a>	corporate	USD	25/10/2018	01/12/2095	7.799	45,534,000	10.46
<a href="#">Athene Holding, 6.875% 28jun2055, USD</a>	corporate	USD	24/06/2025	28/06/2055	7.066	600,000,000	6.43
<a href="#">Bank of America Corporation, 0% 15feb2037, USD (C...)</a>	corporate	USD	04/02/2007	15/02/2037	7.338	100,000,000	10.49
<a href="#">Bank of America Corporation, 1% 25nov2025, USD (N)</a>	corporate	USD	23/11/2020	25/11/2025	8.620	150,000,000	10.72
<a href="#">Bank of America Corporation, 2.482% 21sep2036, USD...</a>	corporate	USD	14/09/2021	21/09/2036	19.953	2,000,000,000	10.72
<a href="#">Brighthouse Financial, 6.25% 15sep2058, USD</a>	corporate	USD	05/09/2018	15/09/2058	8.989	375,000,000	10.46
<a href="#">CenterPoint Energy, 4.516% 15sep2029, USD (Conv.)</a>	corporate	USD	15/09/1999	15/09/2029	20.470	827,899,500	2.82



<https://cbonds.com/ai-bonds/>

# Cbonds AI-Powered Bond Search

Find subordinated bank bonds in Western Europe with a floating coupon rate and a rating of at least Ba2

Find subordinated bank bonds in Western Europe with a floating coupon rate and a rating of at least Ba2



Restrictions

Search

[Clear form](#)



Found: 1,073

Rate the search result:

Yes, all good!

No, the result is incorrect

Issue	Sector	Currency	End of placement	Maturity	Indicative yield, %	Outstanding amount	Modified duration
<a href="#">Areal Bank, 3.125% 20jun2029, EUR</a>	corporate	EUR	20/06/2014	20/06/2029		30,000,000	
<a href="#">Areal Bank, 5.625% 12dec2034, EUR</a>	corporate	EUR	05/09/2024	12/12/2034	4.458	400,000,000	3.24
<a href="#">Areal Bank, 5.75% 7may2035, EUR</a>	corporate	EUR	07/02/2025	07/05/2035	5.572	100,000,000	
<a href="#">Areal Bank, 9.875% perp., USD</a>	corporate	USD	15/01/2025		8.041	425,000,000	
<a href="#">ABANCA Corporacion Bancaria, 10.625% perp., EUR</a>	corporate	EUR	14/07/2023		5.055	250,000,000	
<a href="#">ABANCA Corporacion Bancaria, 4.625% 11dec2036, EUR</a>	corporate	EUR	11/12/2024	11/12/2036	3.917	500,000,000	4.99
<a href="#">ABANCA Corporacion Bancaria, 6% perp., EUR</a>	corporate	EUR	20/01/2021		5.581	375,000,000	0.64
<a href="#">ABANCA Corporacion Bancaria, 6.125% perp., EUR</a>	corporate	EUR	19/09/2025		6.097	500,000,000	0/22 4.00
<a href="#">ABANCA Corporacion Bancaria, 8.375% 23sep2033, EUR</a>	corporate	EUR	23/06/2023	23/09/2033	3.678	500,000,000	2.56
<a href="#">ABN AMRO, 3.324% 13mar2037, USD</a>	corporate	USD	06/12/2021	13/03/2037	5.132	1,000,000,000	5.23
<a href="#">ABN AMRO, 4.75% perp., EUR</a>	corporate	EUR	27/09/2017		4.506	1,000,000,000	1.72

<https://cbonds.com/ai-bonds/>

# Cbonds AI-Powered Bond Search

Find subordinated bank bonds in Western Europe with a floating coupon rate and a rating of at least Ba2

Find subordinated bank bonds in Western Europe with a floating coupon rate and a rating of at least Ba2

 Restrictions

Search

[Clear form](#)







Found: 1,073

Rate the search result:

 Yes, all good!

 No, the result is incorrect

Issue 	Sector	Currency	End of placement	Maturity	Indicative yield, % 	Outstanding amount	Modified duration
<a href="#">Aareal Bank, 3.125% 20jun2029, EUR</a>	corporate	EUR	20/06/2014	20/06/2029		30,000,000	
<a href="#">Aareal Bank, 5.625% 12dec2034, EUR</a>	corporate	EUR	05/09/2024	12/12/2034	4.458	400,000,000	3.24
<a href="#">Aareal Bank, 5.75% 7may2035, EUR</a>	corporate	EUR	07/02/2025	07/05/2035	5.572	100,000,000	
<a href="#">Aareal Bank, 9.875% perp., USD</a>	corporate	USD	15/01/2025		8.041	425,000,000	
<a href="#">ABANCA Corporacion Bancaria, 10.625% perp., EUR</a>	corporate	EUR	14/07/2023		5.055	250,000,000	
<a href="#">ABANCA Corporacion Bancaria, 4.625% 11dec2036, EUR</a>	corporate	EUR	11/12/2024	11/12/2036	3.917	500,000,000	4.99
<a href="#">ABANCA Corporacion Bancaria, 6% perp., EUR</a>	corporate	EUR	20/01/2021		5.581	375,000,000	0.64
<a href="#">ABANCA Corporacion Bancaria, 6.125% perp., EUR</a>	corporate	EUR	19/09/2025		6.097	500,000,000	 0/22 4.00 2.56
<a href="#">ABANCA Corporacion Bancaria, 8.375% 23sep2033, EUR</a>	corporate	EUR	23/06/2023	23/09/2033	3.678	500,000,000	
<a href="#">ABN AMRO, 3.324% 13mar2037, USD</a>	corporate	USD	06/12/2021	13/03/2037	5.132	1,000,000,000	5.23
<a href="#">ABN AMRO, 4.75% perp., EUR</a>	corporate	EUR	27/09/2017		4.506	1,000,000,000	1.72

<https://cbonds.com/ai-bonds/>

# Cbonds AI-Powered Bond Search

Show USD-denominated Eurobonds from African issuers with yields between 8% and 10% not including banks

Show USD-denominated Eurobonds from African issuers with yields between 8% and 10% not including banks

Restrictions

Search

Clear form

Found: 30

Rate the search result:

Yes, all good!

No, the result is incorrect

Issue	Sector	Currency	End of placement	Maturity	Indicative yield, %	Outstanding amount	Modified duration
<a href="#">Angola, 8% 26nov2029, USD (1)</a>	sovereign	USD	19/11/2019	26/11/2029	9.696	1,750,000,000	3.09
<a href="#">Angola, 8.25% 9may2028, USD</a>	sovereign	USD	02/05/2018	09/05/2028	9.255	1,750,000,000	2.04
<a href="#">Egypt, 6.875% 30apr2040, USD</a>	sovereign	USD	22/04/2010	30/04/2040	8.286	500,000,000	8.36
<a href="#">Egypt, 7% 10nov2028, USD</a>	sovereign	USD	08/11/2016	10/11/2028	8.113	1,320,000,000	2.54
<a href="#">Egypt, 7.5% 16feb2061, USD</a>	sovereign	USD	08/02/2021	16/02/2061	9.425	1,500,000,000	8.69
<a href="#">Egypt, 7.903% 21feb2048, USD</a>	sovereign	USD	13/02/2018	21/02/2048	9.481	1,500,000,000	8.69
<a href="#">Egypt, 8.15% 20nov2059, USD (17)</a>	sovereign	USD	13/11/2019	20/11/2059	9.587	500,000,000	9.47
<a href="#">Egypt, 8.5% 31jan2047, USD</a>	sovereign	USD	25/05/2017	31/01/2047	9.544	2,500,000,000	8.69
<a href="#">Egypt, 8.7002% 1mar2049, USD</a>	sovereign	USD	19/02/2019	01/03/2049	9.607	1,500,000,000	8.69
<a href="#">Egypt, 8.75% 30sep2051, USD</a>	sovereign	USD	23/09/2021	30/09/2051	9.663	750,000,000	8.69
<a href="#">Egypt, 8.875% 29may2050, USD (20)</a>	sovereign	USD	21/05/2020	29/05/2050	9.610	2,000,000,000	8.82
<a href="#">Ghana, 5% 3jul2035, USD</a>	sovereign	USD	03/10/2024	03/07/2035	8.354	4,135,753,700	5.23



# API Data Solutions for AI-Powered services



**All AI-Powered startups need data...**

- **Bonds**
- **Equities**
- **ETF & Mutual funds**
- **Indices**
- **Derivatives**
- **Company financial data**
- **News & Research**
- **Forecasts**
- **... all you need...**

**Cbonds has a solution!**

**Thank you for attention!**



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