

Repo Calculator

Description

*The **Repo Calculator** report calculates fair value repos based on either repo rate, spot or forward prices. The report will calculate the trade for each valid bond in the portfolio used.*

Settings

It is possible to specify the following settings in Repo Calculator

Settlement Date: Defines the date for when the first transaction occurs.

Maturity Date: The date for the maturity of the repo trade.

Calculation parameter: Specifies whether the fair value repo should calculate repo rate, spot or forward price.

Nominal: The nominal of the trade.

Spot price: Spot price of the underlying bond. Not used if spot price is the calculation parameter.

Forward price: Forward price of the underlying bond. Not used if forward price is the calculation parameter.

Repo rate (pct.): The trade's repo rate. Not used if repo rate is the calculation parameter.

More settings

Basis: The trade's basis. Default is Act360.

Report elements

The Repo Calculator report elements are described below.

Results: For each underlying bond the results are given in a row with 5 separate tables with the calculated parameter, the spot and forward price, nominal amounts at spot and maturity, and overall calculations.

Forward Price Adjusted is expressed relative to a nominal of 100 on the forward date whereas Forward price value is not.

NDA 1.5 01OCT40 (2)

RESULT	SPOT	FORWARD	NOMINAL AMOUNTS	CALCULATIONS
Output	Spot	Forward	Nominal Amounts	Calculations
Forward_Price 98,2039	Spot price 99,0000	Forward price 98,2039	Spot 150,0000	Spot provenu 148,6607
Forward_Price_Adjusted 98,2039	Accrued interest 0,1071	Accrued interest 0,1000	Maturity 150,0000	+repo interest 1,0522
	Dirty Price 99,1071	Forward dirty price 98,3039		-FV of payments 2,2570
				- accrued interest 0,1500
				= forward price value 147,3059

Payment schedules: Schedule with the payment dates including spot and maturity and in-between bond payments, both in nominal 100 and chosen nominal.

PAYMENT SCHEDULES

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27-01-2020	Nom.100	Value	01-04-2020	Nom.100	Value	01-07-2020	Nom.100	Value	01-10-2020	Nom.100	Value	04-01-2021	Nom.100	Value	25-01-2021	Nom.100	Value
Spot price	99,00	148,50	Coupon Payment	0,38	0,56	Coupon Payment	0,38	0,56	Coupon Payment	0,38	0,56	Coupon Payment	0,38	0,56	Forward sale	98,20	147,31
Accrued interest	0,11	0,16	Principal Payment	0,00	0,00	Principal Payment	0,00	0,00	Principal Payment	0,00	0,00	Principal Payment	0,00	0,00	Accrued interest	0,10	0,15
Total spot price	99,11	148,66															

Input Data

The input are shown below for each bond to customise:

INPUT DATA

PAYMENTS

	2020_04_01	2020_07_01	2020_10_01	2021_01_04
NDA 1.5 01Oct40 (2)	0,0000	0,0000	0,0000	0,0000

INPUTS

	Spot_Price	Repo_Rate	Forward_Price	Forward_Price_Adjusted
NDA 1.5 01Oct40 (2)	99,0000	0,0070	98,2039	98,2039

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