OFLYIELD

Updated: 31 Mar 2016

Use OFLYIELD to calculate the yield from price per 100 face value of a bond with an odd first period and an odd last period. There is no closed-form solution for calculating the yield when there is more than one period to redemption; the solution is found by iteration.

Syntax

```
Public Shared Function OFLYIELD(
ByVal Settlement As Date,
ByVal Maturity As Date,
ByVal Issue As Date,
ByVal First_coupon As Date,
ByVal Last_coupon As Date,
ByVal Rate As Double,
ByVal Price As Double,
ByVal Redemption As Double,
ByVal Frequency As Double,
ByVal Basis As String,)
```

Arguments

Settlement

the settlement date of the bond. *Settlement* is an expression that returns a **Date**, or of a type that can be implicitly converted to **Date**.

Maturity

the maturity date of the bond. *Maturity* is an expression that returns a **Date**, or of a type that can be implicitly converted to **Date**.

Issue

the issue date of the bond; the date from which the bond starts accruing interest. *Issue* is an expression that returns a **Date**, or of a type that can be implicitly converted to **Date**.

First_coupon

the first coupon date of the bond. The period from the issue date until the first coupon date defines the odd interest period. All coupon dates from *First_coupon* to *Last_coupon* are assumed to occur at regular periodic intervals as defined by *Frequency*. *First_coupon* is an expression that returns a **Date**, or of a type that can be implicitly converted to **Date**.

Last_coupon

the last coupon date of the bond prior to the maturity. The period from the last interest date until the maturity date defines the odd interest period. All coupon dates from *First_coupon* to *Last_coupon* are assumed to occur at regular periodic intervals as defined by *Frequency*.

Last_coupon is an expression that returns a **Date**, or of a type that can be implicitly converted to **Date**.

Rate

the bond's annual coupon rate. *Rate* is an expression that returns a **Double**, or of a type that can be implicitly converted to **Double**.

Price

the price of the bond. *Price* is an expression that returns a **Double**, or of a type that can be implicitly converted to **Double**.

Redemption

the bond's redemption value per 100 face value. *Redemption* is an expression that returns a **Double**, or of a type that can be implicitly converted to **Double**.

Frequency

the number of coupon payments per year. For annual payments, *Frequency* = 1; for semi-annual, *Frequency* = 2; for quarterly, *Frequency* = 4; for bi-monthly, *Frequency* = 6; for monthly, *Frequency* = 12. For bonds with Basis = "A/364" or 9, you can enter 364 for payments made every 52 weeks, 182 for payments made every 26 weeks, 91 for payments made every 13 weeks, 28 for payments made every 4 weeks, 14 for payments made every 2 weeks, and 7 for weekly payments. *Frequency* is an expression that returns a **Double**, or of a type that can be implicitly converted to **Double**.

Basis

the type of day count to use.

Basis	Day count basis
0, "BOND"	US (NASD) 30/360
1, "ACTUAL"	Actual/Actual
2, "A360"	Actual/360
3, "A365"	Actual/365
4, "30E/360 (ISDA)", "30E/360", "ISDA", "30E/360	European 30/360
ISDA", "EBOND"	
5, "30/360", "30/360 ISDA", "GERMAN"	30/360 ISDA
6, "NL/ACT"	No Leap Year/ACT
7, "NL/365"	No Leap Year /365
8, "NL/360"	No Leap Year /360
9, "A/365"	Actual/364
10, "BOND NON-EOM"	US (NASD) 30/360 non-end-of-month
11, "ACTUAL NON-EOM"	Actual/Actual non-end-of-month
12, "A360 NON-EOM"	Actual/360 non-end-of-month
13, "A365 NON-EOM"	Actual/365 non-end-of-month
14, "30E/360 NON-EOM", "30E/360 ICMA NON- EOM", "EBOND NON-EOM"	European 30/360 non-end-of-month

15, "30/360 NON-EOM", "30/360 ISDA NON-	30/360 ISDA non-end-of-month
EOM", "GERMAN NON-EOM"	
16, "NL/ACT NON-EOM"	No Leap Year/ACT non-end-of-month
17, "NL/365 NON-EOM"	No Leap Year/365 non-end-of-month
18, "NL/360 NON-EOM"	No Leap Year/360 non-end-of-month
19, "A/365 NON-EOM"	Actual/364 non-end-of-month

Basis is an expression that returns a **String**, or of a type that can be implicitly converted to **String**.

Return Type

Double

Remarks

- If Settlement is NULL then Settlement equals the current system processing date.
- If Rate is NULL then Rate = 0.
- If Price is NULL then Price = 100.
- If Redemption is NULL then Redemption = 100.
- If Frequency is NULL then Frequency = 2.
- If Basis is NULL then Basis = 0.
- If Frequency invalid an error is returned.
- If Basis invalid (see above list) an error is returned.
- If Maturity is NULL then an error is returned.
- If Last coupon is NULL then an error is returned.
- If First coupon is NULL then an error is returned.
- If Issue is NULL then an error is returned.
- If Settlement >= First coupon then the yield is calculated using ODDLYIELD.

See Also

- BONDCF Cash flows for a bond paying regular periodic interest
- DIRTYPRICE Dirty price of a bond
- DIRTYYIELD Yield of a bond from the dirty price
- DIS Price, discount rate, and/or yield of a discount security
- DISC Discount rate
- DISFACTORS Factors for the price calculation of a discount security
- IAM Price and/or yield of a security paying interest at maturity
- IAMFACTORS Factors for the price calculation of a security paying interest at maturity
- ODDFPRICE Price of a bond with an odd first coupon
- ODDFYIELD Yield of a bond with an odd first coupon

- ODDLPRICE Price of a bond with an odd last coupon
- ODDLYIELD Yield of a bond with an odd last coupon
- OFC Calculate the price and/or yield of a bond with an odd first coupon using the ODDFPRICE equation
- OFCFACTORS Returns the components of the ODDFPRICE equation
- OFL Calculate the price and/or yield of a bond with an odd first and an odd last coupon using the OFLPRICE equation
- OFLFACTORS Returns the components of the OFLPRICE equation
- OFLPRICE Calculate the price of a security with an odd first and odd last period
- OLC Calculate the price and/or yield of a bond with an odd last coupon using the ODDLPRICE equation
- OLCFACTORS Returns the components of the ODDLPRICE equation
- PRICE Price of a security paying regular periodic interest
- PRICEACT Price of a bond where coupon amounts are based on number of days in the coupon period
- PRICEACTV Cash flows and discount factors for a bond where coupon amounts are based on number of days in the coupon period
- PRICEDISC Price of a discounted security
- PRICEFR Price of a bond with forced redemptions
- PRICEMAT Price of an interest-at-maturity security
- PRICESTEP Price of a security with step-up rates
- RPI Calculate the price and/or yield of a bond with regular periodic coupons
- RPIFACTORS Factors for the calculation of the price of a bond that pays regular periodic interest
- TBILLEQ Bond equivalent yield of a Treasury Bill
- TBILLPRICE Price of a Treasury Bill
- TBILLYIELD Yield of a Treasury Bill
- YIELD Yield of a bond paying regular periodic interest
- YIELDACT Yield of a bond where coupon amounts are based on number of days in the coupon period
- YIELDDISC Yield on a discount security
- YIELDFR Yield of a bond with forced redemptions
- YIELDMAT Yield on an interest-at-maturity security
- YIELDSTEP Yield of a security with step-up rates