

# R documentation

of 'DebonBMgNo.Rd'

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DebonBMgNo

*B vs. Mg number diagram (Debon + Le Fort 1988)*

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## Description

Assigns data for Debon & Le Fort's B vs. Mg/(Fe + Mg) diagram into Figaro template (list 'sheet') and appropriate values into 'x.data' and 'y.data'.

## Usage

```
DebonBMgNo(reference.rocks=TRUE)
```

## Arguments

`ideal.rocks`      logical; should be the ideal rock compositions also plotted?.

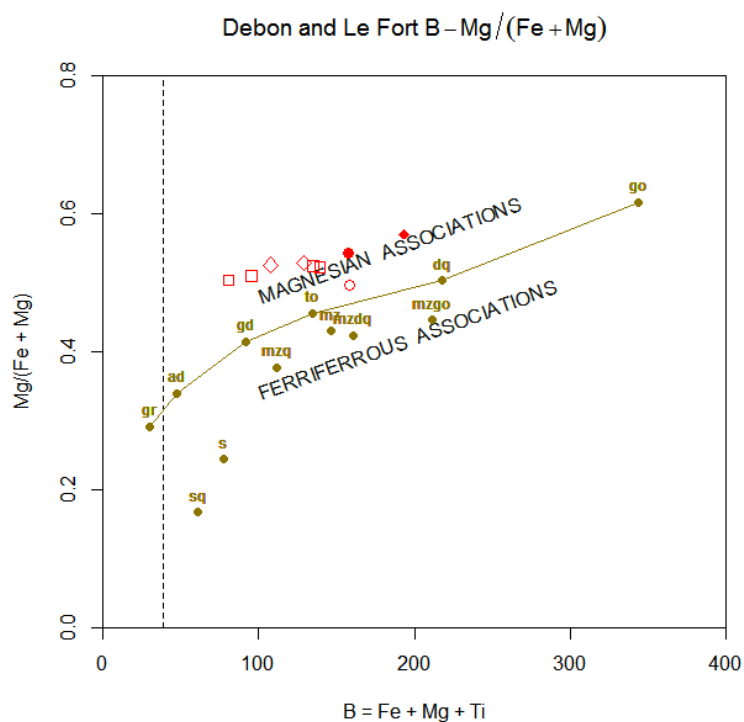
## Details

The B vs. Mg/(Fe + Mg) diagram was proposed by *Debon and Le Fort (1983)* to distinguish magnesian and ferriferrous associations.

Parameters for the diagram are calculated by the function 'DebonCalc'. All of them are based on millications (1000 gram-atoms per 100 grams).

$B = Fe + Mg + Ti$  [maficity]

$Mg/(Fe + Mg)$  [Mg number, Fe is total iron]



Optionally, if, `reference.rocks = TRUE`, twelve average chemical compositions of common igneous rocks are also plotted, as follows:

label	plutonic rock
go	<i>gabbro</i>
mzgo	<i>monzogabbro</i>
mz	<i>monzonite</i>
s	<i>syenite</i>
dq	<i>quartz diorite</i>
mzdq	<i>quartz monzodiorite</i>
mzq	<i>quartz monzonite</i>
sq	<i>quartz syenite</i>
to	<i>tonalite</i>
gd	<i>granodiorite</i>
ad	<i>adamellite</i>
gr	<i>granite</i>

For details, see *Debon & Le Fort (1983)* and *(1988)*.

#### Value

sheet	list with Figaro Style Sheet data
x.data	Q value. See details.
y.data	B value. See details.

#### Author(s)

Vojtech Janousek, <vojtech.janousek@geology.cz>

**References**

Debon F & Le Fort P (1983) A chemical-mineralogical classification of common plutonic rocks and associations. *Trans Roy Soc Edinb; Earth Sci* 73: 135-149

Debon F & Le Fort P (1988) A cationic classification of common plutonic rocks and their magmatic associations: principles, method, applications. *Bull. Mineral* 111: 493-511

**See Also**

[classify](#) [figaro](#) [plotDiagram](#) [DebonPQ](#) [DebonBA](#) [DebonQB](#) [DebonKNaB](#) [DebonBQF](#) [DebonCalc](#)

**Examples**

```
data(blatna)
accessVar("blatna")
selectSubset("SiO2>50")
plotDiagram("DebonBMgNo",FALSE,reference.rocks=TRUE)
figCol("red")
```