#### NORMINV

[Syntax](Syntax.docx):

NORMINV ( probability , mean , standard-deviation )

Description: Computes the inverse of the normal distribution for the specified mean and standard deviation. NORMINV uses an iterative search technique.

Arguments:

|  |  |  |
| --- | --- | --- |
| Name | Type | Description |
| probability | number | The probability corresponding to the normal distribution. |
| mean | number | The arithmetic mean of the distribution. |
| standard-deviation | number | The standard deviation of the distribution. |

Return Type and Value: number – The inverse of the normal distribution for the specified mean and standard deviation.

However, if

* probability < 0 or if probability > 1, #NUM! is returned.
* standard-deviation ≤ 0, #NUM! [is](is.docx) returned.
* The search has not converged after an implementation-defined number of iterations, #N/A is returned.

[Example:  
  
NORMINV(0.908789,40,1.5) results in 42.00000201

end example]