

Technical Data Sheet

Brix Standards

for use in the calibration of refractometers

The product can be used as a reference material for the determination of the Brix value by refractometers.

Degrees Brix (symbol °Bx) is the sugar content of an aqueous solution. One degree Brix is 1 gram of sucrose in 100 grams of solution and represents the strength of the solution as percentage by weight (% w/w).

The main target industries are:

- wine and beer
- sugar
- fruit juice
- honey
- starch and sugar manufacturers

Product:

Ordering number	Product name
5.00400.0001	Brix standard 0°
5.00405.0001	Brix standard 5°
5.00410.0001	Brix standard 10°
5.00420.0001	Brix standard 20°
5.00430.0001	Brix standard 30°
5.00440.0001	Brix standard 40°
5.00450.0001	Brix standard 50°
5.00460.0001	Brix standard 60°





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Characteristics:

- Each item contains of 5 glass ampoules
- Each ampoule contains about 8 ml solution
- Minimum shelf-life of Brix standard 0° is 36 months
- All other Brix standards minimum shelf life is 24 month
- Tested for homogeneity and stability
- Storage at room temperature

Nominal values and extended measurement uncertainty

All Brix standards have an extended measurement uncertainty calculated according to ISO 17025.

° Brix	extended uncertainty
0°	± 0,02°
5° 10° 20° 30°	± 0,05°
40° 50° 60°	± 0,1°

Conversion table for nominal amounts: According to ICUMSA

° Brix	n_D^{20}
0°	1,332986
5°	1,340264
10°	1,347824
20°	1,363842
30°	1,381149
40°	1,399860
50°	1,420087
60°	1,441928