Bagasse Brix, Fibre % Bagasse and Fibre % Cane

Brix % bagasse from its pol and the last expressed juice purity, fibre % bagasse by difference and fibre % cane from bagasse % cane.

Method: Sugar factory chemical control (daily manufacturing report) definitions; as compiled in SugarProcessTech; ...

Input parameters

Unit system: SI

Parameter	Value	Unit
Moisture % bagasse	50.000	%
Pol % bagasse	1.8000	%
Purity of last expressed juice	75.000	%
Bagasse % cane	29.000	%

Calculated results

Parameter	Value	Unit
Brix % bagasse	2.4000	%
Fibre % bagasse	47.600	%
Fibre % cane	13.804	%

Notes for this case

- The juice left in bagasse is taken at the purity of the last expressed juice.

Formula and method

$$Bx_B = \frac{Pol_B}{P_{LEJ}}, \quad F_B = 1 - W - Bx_B, \quad F_c = F_B\, B$$

Variables

W	Moisture % bagasse	-
Pol_B	Pol % bagasse	-
P_{LEJ}	Purity of last expressed juice	-
B	Bagasse % cane	-
Bx_B	Brix % bagasse	-
F_B	Fibre % bagasse	-
F_c	Fibre % cane	-

Method and standards

Bagasse = fibre + moisture + brix.

Assumptions and limits

- Routine analyses.

References

- Sugar factory chemical control (daily manufacturing report) definitions
- as compiled in SugarProcessTech
- Formulas for calculating sugar industry DMR

Report details

Report reference	FCC-MAZP-ZQV6 (the same inputs always give the same reference)
Generated	17 November 2026, 19:37 UTC
Calculator	Bagasse Brix, Fibre % Bagasse and Fibre % Cane
Method last reviewed	13 November 2026
Software release	FireCAD Calc, release of 17 November 2026
Release checks	2 reference cases of this calculator, computed independently, are checked on every release

Results are for engineering estimation. Verify critical designs against the referenced standards and your own data.

This calculator online

https://calc.firecad.com/sugar-ethanol/milling/bagasse-fibre-balance

Open this case on calc.firecad.com →

Reopens the calculator with the inputs of this report.