Cane Preparation Index

Preparation index of shredded cane: the share of pol in open (ruptured) cells, from the pol extracted by a short wash and the total pol in the sample.

Method: Preparation index definition (pol in open cells / total pol); test methods by SASTA and ICUMSA

Input parameters

Unit system: SI

Parameter	Value	Unit
Pol in open cells (wash extraction) % cane	12.200	%
Total pol (full disintegration) % cane	13.500	%

Calculated results

Parameter	Value	Unit
Preparation index	90.370	%

Formula and method

$$PI = \frac{Pol_o}{Pol_t}$$

Variables

Pol_o	Pol in open cells (wash extraction) % cane	-
Pol_t	Total pol (full disintegration) % cane	-
PI	Preparation index	-

Method and standards

Definition.

Assumptions and limits

- Same sample for both pols. PI depends on the wash method (time, water ratio, mixing): compare values only from the same method.

References

- Preparation index definition (pol in open cells / total pol); test methods by SASTA and ICUMSA

Report details

Report reference	FCC-B5V6-7HT0 (the same inputs always give the same reference)
Generated	17 November 2026, 19:46 UTC
Calculator	Cane Preparation Index
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/cane-preparation/cane-preparation-index

Open this case on calc.firecad.com →

Reopens the calculator with the inputs of this report.