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The invention relates to tobacco industry, particularly to tobacco fermentation and may be used by tobacco-growing farms and specialized fermentation plants for production of raw material suitable for cigarette manufacture.

The process includes tobacco warm-up to a temperature of 50...60°C at a relative air humidity of 50...75%, maturation and cooling thereof. The novelty of the invention consists in that the tobacco warm-up is produced gradually: in the beginning up to a temperature of 30...35°C, then up to 40...45°C, maturing the tobacco to these temperatures during 1...1,5 days, after that its temperature rises up to 50...60°C, maturing it to this temperature up to complete fermentation.

The result of the invention consists in reducing the duration of tobacco fermentation process.