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The invention relates to tobacco industry, particularly to fermentation of tobacco leaves.

The process includes warm-up of the leaves up to a temperature of 50...55°C at a relative air humidity of 60...75%, maturation using the active ventilation and cooling of leaves. The novelty of the invention consists in the fact that during maturation of tobacco leaves it is produced additional feed of oxygen with maintenance thereof in the chamber at the concentration of 15...25%.

The result of the invention consists in reducing the power expenditure by excluding rejection of the warmed-up air.