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Abstract

The invention is concerned with an integrated film and fibre plant for the production of cellulose films and fibres according to the amine-oxide process, said plant substantially comprising: a plant for the production of pulp; a mixing device for the production of a suspension of pulp in an aqueous amine-oxide solution, said suspension having low consistency; a device for the concentration of the pulp suspension having low consistency, wherein the pulp suspension is mechanically spread like a layer on a heating surface, heated and transported across said heating surface while intensively mixing it and evaporating water, until a predetermined amount of water has evaporated and a concentrated pulp suspension is produced; a device wherein the concentrated cellulose suspension produced in the former device is transformed into a mouldable solution of cellulose, and a forming device connected to said device, wherein the mouldable cellulose solution is processed to cellulose films or fibres (Figure 1).