

The rheological properties of some excipients and formulations are studied in this diploma thesis. The theoretical part deals with basic rheological terms, factors affecting the rheological behaviour, methods and instruments used for measurements of the rheological parameters.

The experimental part deals with the measurement of viscosity of some excipients and formulations according to Czech Pharmacopoeia 2009. The measurements were done using Ubbelohdeho capillary viscometer, rotational viscometer Rheotest 2 and digital Brookfield viscometer type DVE. The measurements of consistency by penetrometry of some ointment bases, ointments and creams according to Czech Pharmacopoeia were done. Conclusions of this work could serve for specification of the Pharmacopoeian instructions concerning the measurements of apparent viscosity and consistency.

Keywords: viscosity, apparent viscosity, consistency, penetrometry