

Gallová Zuzana- Diplomová práce – 2006

The graduation theses deal with the evaluation of tablet strength. The work uses the record force - displacement . The method determines destructive force and energy of compression. Theoretical part of the work deals with the characterization of granules and tablets, theory of destruction of tablets and parameters of the mechanical resistance of tablets. The aim of the experimental work was the determination of an optimal cycle and the height of preloading. The basic configuration of the pressing operation: test speed 1 mm/s, preload 0.05 N, preloading rate 0.1 mm/s . Commercially produced Acylpyrine tablets were evaluated. It follows from the results that the optimal configuration for the measurement of tablet resistance with T1-FRO instrument is the test speed 0.6 mm/s and higher. Suitable preloading is 0.1N