

Tablet Hardness Test

Solid tablets are probably the most commonly used dosage form of drugs. Tablet hardness can be used not only as a standard to guide product development, but also as a quality control indicator. Tablets should not be too hard or too soft. Extremely hard tablets may indicate that the binding force between the active ingredient and the excipient is too great, which may prevent the proper dissolution of the tablet needed for an accurate dosage. Similarly, softer tablets may be the result of weak binding and may cause premature disintegration when ingested by patients.



CD Formulation can provide analytical services for a variety of dosage forms. Our laboratory is cGMP-compliant and equipped with state of the art analytical instruments. Our scientists conduct proven analytical process development and validation services and work as an integrated team to provide solutions that make your project a success. At **CD Formulation**, all tablet hardness test meet the latest requirements of Pharmacopeia.

Factors That Could Affect the Hardness of Tablets

- The speed of compression
- The flow and air entrapment
- Formulation variable

- Process parameters

Deliverable

- Data analysis
- Provide full study report

References

1. Seitz, James A., and Gerald M. Flessland. "Evaluation of the Physical Properties of Compressed Tablets I. Tablet Hardness and Friability." *Journal of Pharmaceutical Sciences* 54.9 (1965): 1353-1357.
2. Herrmann, Konrad, ed. *Hardness Testing: Principles and Applications*. ASM international, 2011.