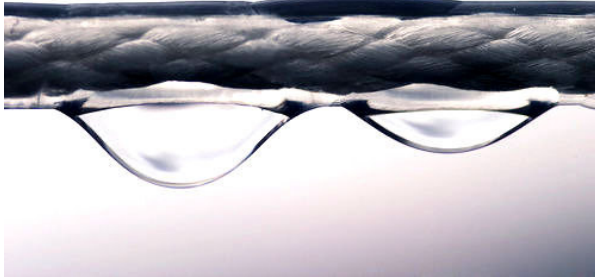


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## Surface Tension

### Material Flow Solutions, Inc.

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***Surface Tension.*** Surface characteristics of particles dictate the magnitude of inter-particle forces between adjacent particles. These adhesive bonds between particles result in bulk cohesion. And resistant to shear. Liquid bonds between particles can cause significant forces to hold particles together resulting in a material that will arch over outlets and form stable ratholes in process equipment. We have developed models relating inter-particle forces to cohesive behavior and can use these to estimate

the cohesion in your process during the product design phase of the project. This provides you with a shorter path to market and allows more robust design of processes with limited bulk property information.

***PRACTICAL APPLICATIONS*** of *surface tension* data include, but are not limited to:

- ✿ Segregation prevention
- ✿ Process design during formulation development
- ✿ Hang-up prevention
- ✿ Process control
- ✿ Risk analysis
- ✿ Flow rate prediction
- ✿ Blending analysis
- ✿ Drying efficiencies