



Navigation



Extrusion 1-0-Wiki Pages

- [Main Page](#)
- [Best Papers](#)
- [Book Reviews](#)
- [Consultants Corner](#)
- [Extruder Software](#)
- [Extrusion Hints](#)
- [Safety](#)
- [Shop Tools](#)
- [Sponsors](#)
- [Technical Articles](#)

Search the Wiki

 »

Viewing/Creating

- [Random Page](#)
- [Create a new Page](#)
- [All Pages](#)
- [Categories](#)

Account Management

- [Login/Logout](#)
- [Language Selection](#)
- [Your Profile](#)
- [Create Account](#)

Administration

- [Administration](#)
- [File Management](#)

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Rules of Thumb

Modified on Monday, 02 February 2015 12:48 PM by [mpieler](#) Categorized as [Extrusion Hints](#)

(10) » [Installing a Dehumidifying Drying System](#) » [Dryer Inlet Air](#) » **Rules of Thumb**

Rules of Thumb
Vol. 25 #3, Dec. 1998

As we constantly strive for more output, we can and do cause problems in melt quality and rate. Some simple reminders:

- An increase of 1000 psi will increase melt temperature normally from 5 to 30 deg. F.
- Higher pressure will improve mixing.
- Higher pressure will increase die swell.
- Higher pressure may reduce rate per rpm.
- An increase of 10% screw speed will increase melt temperature by approximately 5% and an increase in screw speed will eventually result in poor melting, uneven melt, and surging.

- Mark Sewak, LCI Corp.

See also:

- High motor amps
- Monitor back pressure
- Pressure increases temperature
- Pressure transducers 2
- Profile die design

Return to [Extrusion Hints](#)

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