

Technical Note:**Catalyst Masterbatches:****Minimum Dosage Levels for SILON PEX Compounds**

SILON offers both natural and colored catalyst masterbatches. SILON catalyst masterbatches contain a critical catalyst which is necessary to assure complete crosslinking of the finished product and sophisticated stabilization and protection additives which include:

- Chlorine protection
- UV protection
- Metal deactivation, and
- Pigmentation (for coloured products only)

To ensure the effectiveness of the stabilization additives and sufficient crosslinking, the minimum recommended dosage level of catalyst masterbatch is 5.00%. The acceptable range is between 5.00% and 5.50%.

If the dosage level of the catalyst masterbatch is under 5.00%, this will diminish the ability of the material to crosslink to an effective level and reduce the long-term protection of the PEX tubing against chlorine attack, UV degradation, and catalytic degradation caused by metal exposure.

Gravimetric dosing systems are recommended for use on extrusion lines where SILON PEX is converted into a final product, as this is the best available technology to the tubing manufacturer to assure optimum PEX tubing properties and long-term performance.

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