

Technical Note:

CATALYST MASTERBATCHES

Minimum Dosage Levels for Kafrit NA PEX Compounds

Kafrit NA offers both natural and colored catalyst masterbatches. Kafrit NA 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 pipe and tubing against chlorine attack, UV degradation, and catalytic degradation caused by metal exposure.

Gravimetric dosing systems are recommended for use on extrusion lines where Kafrit NA crosslinkable polyethylene is converted into a final product. This is the best available technology for pipe and tubing manufacturers to assure optimum PEX properties and long-term performance.

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Kafrit NA Ltd, a member of the Kafrit Group, is certified to ISO 9001:2015, ISO 14001:2015 & OHSAS 18001:2007.

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