

Technical Sheet

Product Description

CT301 is a mechanical–chemical purging concentrate that combines controlled mineral micro-scrub with reactive interfaces to accelerate tough material and color changes—especially PO ↔ PA transitions. Blend at 30–50% with the next polymer (virgin or regrind). It is non-foaming and suitable for injection and extrusion molding.

Engineered to detach polar residues (e.g., PA/EVOH) while sweeping pigments, black specks, deposits, and haze from screw, barrel, nozzle, and flow channels—without long soaks.

Formulated with ingredients commonly used in indirect food-contact applications, compliance documentation available upon request.

Suitable for: PO (LD/LL/HDPE, PP), PA6/PA66 (dry), EVA/EMA/EBA, TPO, TPE, TPE-S, STYRENICS (PS, HIPS, ABS, SAN), PC-ABS.

Features & Benefits

Use note: CT301 is concentrate. Do not use pure. Always blend at 40–50% with the next production material (virgin or regrind) before purging.

- Hybrid cleaning: controlled micro-scrub + reactive compatibilization for polar residues.
- Fast action without long soaks; reactions happen within seconds at process temperature.
- Broad usability: one grade to bridge PO↔PA and handle color changes in PO/styrenics.
- Process-friendly: built-in lubricants help stabilize torque/pressure and limit fines.
- Flexible cost-in-use: 30–50% dosage adjustable with plant material (virgin or regrind).

Compatibility & limitations

- It is suitable for PO (LD/LL/HDPE, PP), PA6/PA66 (dry), EVA/EMA/EBA, TPO, TPE/TPE-S, styrenics (PS, HIPS, ABS, SAN), PC-ABS.
- For delicate hot runners or fine nozzles, use a 20% blend (i.e., lower concentrate ratio) and maintain moderate flow to minimize wear.
- Not recommended for PVDF, POM, or PVC.

Shelf Life Indefinite in sealed container.

Physical Properties

Processing Temperature	190-290 °C
Blockage (degraded)	
Minimum Orifice	>1mm
Minerals	45 microns/325 mesh, medium- high Mohs hardness and angular shape for thorough scrubbing No CaCO3 used
Screen Pack	Recommend removal to prevent blockage of degraded materials