

UNICELL-TS

- p-Toluenesulfonylsemicarbazide
- Foaming agent for high temperature process

Description

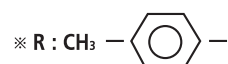
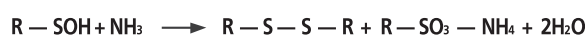
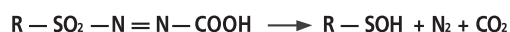
UNICELL-TS, the trade name of p-Toluenesulfonylsemicarbazide, evolves gas at the relatively higher decomposition temperatures than foaming agents. The high decomposition temperature of UNICELL-TS gives less risk of premature decomposition in compounding stage where high temperatures are required. UNICELL-TS is recommended to use in ABS, rigid PVC, polyamide, HDPE, Polysulfone and other polymers requiring high processing temperature.

Properties of UNICELL-TS

Item	Specification
Chemical Name	p-Toluenesulfonylsemicarbazide
Appearance	Fine White Powder
Decomposition Temperature (°C)	228~232
Gas Volume (ml/g, at 25°C)	115~155
Average Particle Size(μm)	4.0~4.6
Moisture Content (%)	0.5 max.
Chemical Formula	CH ₃ - φ - SO ₂ - NH - NH - CO - NH ₂
Specific Gravity (at 25°C)	1.44
Molecular Weight	299.25
Solubility (g sample/100ml solvent, at 20°C)	Soluble in Water : 0.49 Toluene : 0.35 Alcohol : 5.10 DMSO : fairly soluble
CAS No.	10396 - 10 - 8

Decomposition of UNICELL-TS

When UNICELL-TS decomposes, nitrogen and carbon dioxide are evolved.



Several compounds have been found to activate the decomposition of UNICELL-TS. Because of this activation, UNICELL-TS is applicable to low processing temperature plastics. General activators are; UNIPASTE series, zinc oxide, zinc stearate, calcium stearate, lead stearate and zinc chloride.