



### LTAFO2 Defoamer Specification

1. Product model: Silicon ether type defoamer for fermentation
2. Active ingredients: high temperature silicon polyether, dispersant.
3. Quality index: Appearance: milky white viscous liquid, stability (3000 rpm/20 minutes); no stratification; non-volatile matter;  $\geq 28\%$ ; PH value 6-8.
4. Product introduction: LTAFO2 is improved from LTAFO1 for special fermentation system. It is composed of special high-temperature silicone polyether and dispersant, which overcomes the influence of polyether on microbial fermentation and maintains the high-efficiency defoaming effect of silicone. Appropriate use can meet the requirements of foam control throughout the fermentation cycle; It contains free polyether, so it is non-toxic to strains, thereby improving the growth environment of strains and significantly increasing the titer. It is widely used in many fermentation processes such as vitamins, pesticides, antibiotics, etc., which are more sensitive to bacteria.
5. How to use: Add it directly to the base material; it can also be fed with feed after dilution and disinfection; the usage amount is about 0.5-1%. This product should pay attention to antifreeze preservation!

Product name		LTAFO2 Silicone Defoamer		
Report date	2022. 06. 19	Q-ty	200KG	
Production Date	2022. 06. 18	Batch number	AF02-20220618	
No	Test items	standard value	Measured value	Result
1	Apperance	Milky white liquid	Milky white liquid	pass
2	Non-volatile matter (100°C/120` 105°C/180`)	$\geq 26\%$	30.10%	pass
3	pH value (1 % aqueous solution)	6-8	7.0	pass
4	Stability (3000r/20`)	Stable and not delaminated	Not delaminated	pass

It is valid within one year under normal temperature for storage