

# Creating Additive Value



## Defoamers For All Cleaning Applications

- Floor Cleaners
- Household Cleaners
- General Purpose Cleaners
- Clean-in-place (CIP)
- Dish & Laundry Detergents
- Tankside for acid/alkaline cleaners
- Disinfectants
- Car Washes

FOAM BAN®	Concentrate	Tankside	Highly Compatible	Fast Knockdown	Persistent Foam Control
1820	●		●		●
1840	●		●		●
4950		●		●	●
4940		●			●
4901		●		●	

### Key Terms:

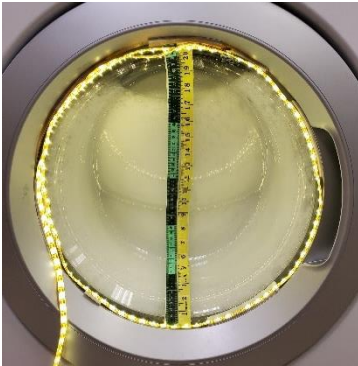
- **Concentrate Defoamer:** needs to provide foam control and be highly stable in the cleaner
- **Tankside Defoamer:** used during the cleaning application to provide foam control
- **Knockdown:** rate at which the defoamer eliminates foam that has built up
- **Persistence:** ability of a defoamer to maintain foam control under prolonged shear
- **Compatibility:** measure of how likely the defoamer is to create body haze or separate out



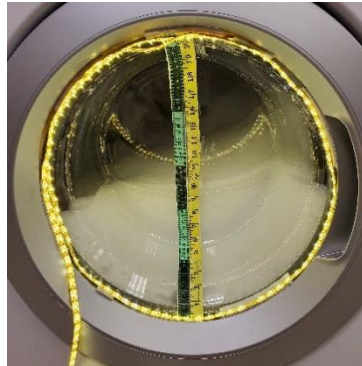
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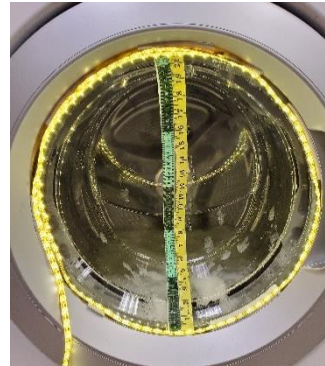
## Liquid Laundry Detergent Application Test



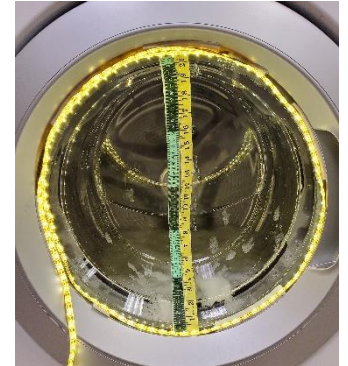
Blank  
(no defoamer)



Industry Benchmark  
(0.5%)



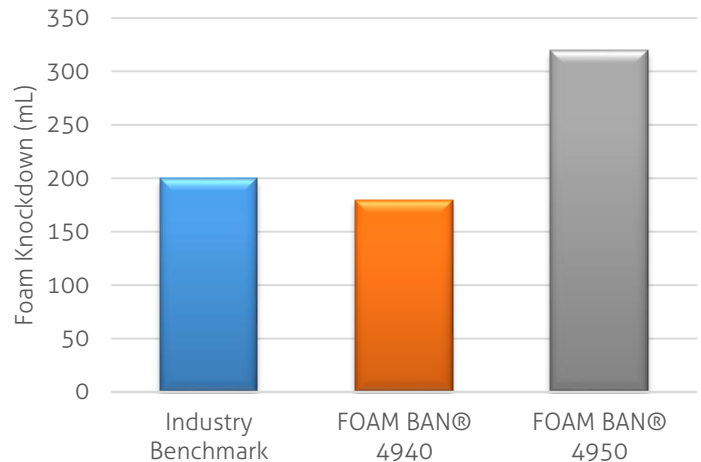
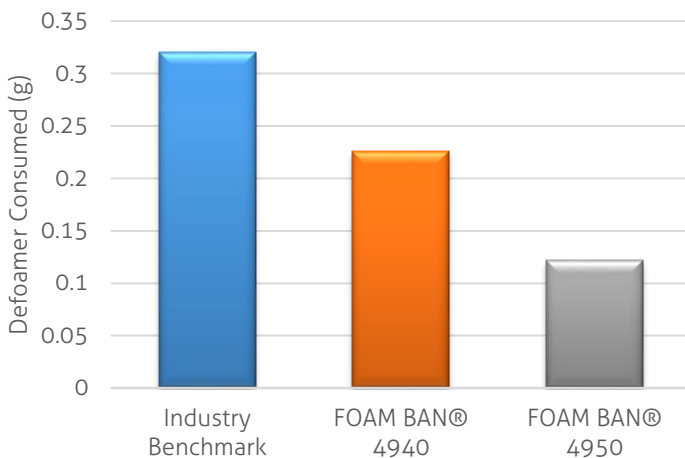
FOAM BAN® 1820  
(0.1%)



FOAM BAN® 1840  
(0.1%)

- Foam generation observed using a front loader laundry machine
- FOAM BAN® 1820 and FOAM BAN® 1840 (3D siloxane): provided **excellent compatibility** in the liquid concentrate and **antifoam properties** during washing
- FOAM BAN® 1800 series products **provided improved performance** compared to the Industry Benchmark at lower dosages

## Steel Mill Degreaser Tankside Recirculation Test



- **Highly alkaline, pH=14, application**
- 3 Hour recirculation test where defoamer is added as needed
- Less defoamer consumed and higher foam knockdown after addition indicates better performance
- FOAM BAN® 4950 and FOAM BAN® 4940 provided **excellent foam control persistence and knockdown**

