

Tecnite®

**INNOVATIVE
SOLUTIONS**



High Temperature NSF Rated H1 Food Grade Oven Chain Lubricants

The high quality Food Grade synthetic ester based oven chain oil range for your high temperature H1 rated applications



Tecnite OCL-High Temp Food Grade Chain Oils–H1 Rated

Synthetic esters have become the industry standard for the lubrication of industrial oven chains. Our Tecnite range offers high quality high temperature food grade polyol ester oils with NSF H1 rated approval. Being H1 rated Tecnite oven chain lubes may come in incidental contact with food during the production process.

The Tecnite range of oven chain lubes are able to operate in temperatures that exceed 260°C. Our H1 rated solution can provide the following cost performance advantages:

- **Clean lubrication** = Lower product consumption cost benefits
- **Low maintenance** = Less downtime of your equipment
- **Very little evaporation** = Longer protection where you need it/Low deposits
- **Low friction and wear** = Less chain maintenance issues
- **NSF H1 certification for incidental food contact** = Corporate Social Responsibility

Tecnite Product Range

The Tecnite OCL range is available in three different pack sizes and in four different viscosities: 68, 100, 220 and 350 cst.. Tecnite high temperature synthetic ester based oils can be applied in a variety of high temperature applications. By far the most common application is the lubrication of oven chains in the bakery industry.

High quality ester oils ensure clean lubrication at high temperatures. Smoke and evaporation are indications that the lubricant is operating above its maximum temperature. This results in oil vaporization that leads to increased friction and wear on the oven chain. The oven pan test (Figure 1) depicts the low deposit low evaporation advantages the Tecnite H1 range can provide given its oxidative, thermal and hydrolytic stability capabilities.



Figure 1 – Fewer deposits on metal as Tecnite remains liquid even after long exposure to temperatures up to 260°C. Less time devoted to cleaning chains result in substantial cost savings.

Evaporation Loss and Four Ball Wear Test

Evaporation test (ASTM D-2595) and the four ball test (ASTM D-4172) results demonstrate that Tecnite high temperature food grade oils remain liquid after long exposure to temperatures up to 260°C. The two test results below indicate that Tecnite oils perform longer requiring less lubrication while retaining their protective properties under extreme conditions.

Evaporation Loss Test (ASTM D-2595)

Tecnite OCL	% Weight Loss after 6,5 hrs. @ 204°C	% Weight Loss after 22 hrs. @ 204°C	% Weight Loss after 20 hrs. @ 260°C
H1 FG-68	1.2	2.3	24
H1 FG-100	1.4	2.6	26
H1 FG-220	1.1	2.1	29
H1 FG-350	1.0	1.9	31

Four Ball Wear Test (ASTM D-4172)

Tecnite OCL	Mm wear scar 40kg. 1200RPM @ 100°C	Mm wear scar 40kg. 600RPM @ 200°C
H1 FG-68	0,4	0,44
H1 FG-100	0,4	0,45
H1 FG-220	0,6	0,48
H1 FG-350	0,7	0,49

Product Data – Tecnite H1 FG Oven Chain Oils

Data	Unit	68	100	220	350
		Value			
Viscosity @ 40°C	cst	70	100	220	350
Viscosity @ 100°C	cst	10	12	19	24
Viscosity Index		125	120	95	85
Pour Point	°C	-50	-40	-25	-20
Flash Point	°C	315	310	315	305
Fire Point	°C	345	350	350	335
RBOT @ 150°C	min.	750	660	1030	1170
Residue @ 260°C – 20 hrs	%	12	14	20	20
NSF Registration Number		143169	143170	143171	143172



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