

AMPLIFIRE™ FRESH HOP OIL TECHNICAL DATA SHEET

CHARACTERISTICS

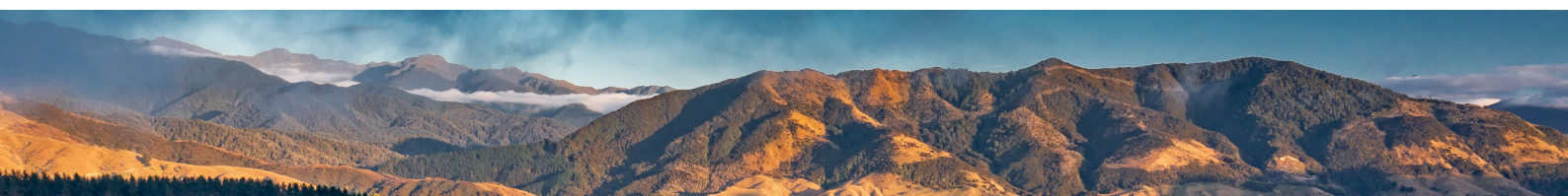
Amplifire™ fresh hop oil is a water-soluble flowable liquid hop product prepared from fresh hops by specific extractions. There are no solvents used in extraction. Amplifire™ fresh hop oils are dispersible in beer and water-based beverages. Amplifire™ fresh hop oils do not contain iso- alpha acids and do not contribute bitterness. Amplifire™ fresh hop oil is extracted from unkilned (wet) hop cones on the same day as harvest.

PRODUCT SPECIFICATIONS

Manufacturer	Clayton Hops 377 Waimea West Road Brightwater, Tasman 7091 New Zealand
Appearance	Flowable liquid.
Colour	Variety dependent. Yellow, green, amber to clear.
Aroma	Variety dependent.
Category	Hop extract, dry hopping, brite tank addition.
Density	Variety dependent: circa. 0.89-0.95g/mL.
Iso-Alpha Acids	<0.1%
Alpha-Acids	<0.1%
Beta-Acids	<0.1%

PACKAGING

Amplifire™ fresh hop oil is supplied in 10mL, 20mL, 100mL and 1L receptacles. Receptacles meet all food industry packaging regulations and requirements.



PRODUCT USE

Amplifire™ fresh hop oil can be used to replace hop pellets during the dry hopping stage. Amplifire™ fresh hop oil also works very well in tandem with hop pellet dry-hopping, giving brewers the flexibility to substitute partial hop pellet doses without sacrificing beer body and mouthfeel. Amplifire™ fresh hop oil can also be added to the brite tank. We recommend dosing prior to carbonating as post carbonation additions may influence head retention. Amplifire™ fresh hop oil can also be used for hop waters and Ready To Drink (RTD) beverages.

DOSING

Dosing rates will vary according to brewer preference. As a starting point we suggest:

BASE STYLE	DRY HOPPING RANGE	STARTING TRIAL DOSE RATES
Lager & lighter beer styles	0.5 - 5g/L	3 - 5mL/hL
Pale ale	4 - 10g/L	10 - 15mL/hL
IPA	8 - 15g/L	15 - 20mL/hL
Hop water		3 - 15mL/hL

As further guidance, 100mL of Amplifire™ fresh hop oil is equivalent to using around 5kgs of T90 hop pellets.

Dose Amplifire™ fresh hop oil into 2-3 L of your beverage and agitate to disperse before dosing into the tank. Alternatively, dispense in warm (not hot) water first. Amplifire™ fresh hop oil can also be dosed inline to the brite tank which should provide suitable agitation.

RECOMMENDED STORAGE AND BEST-BY USAGE

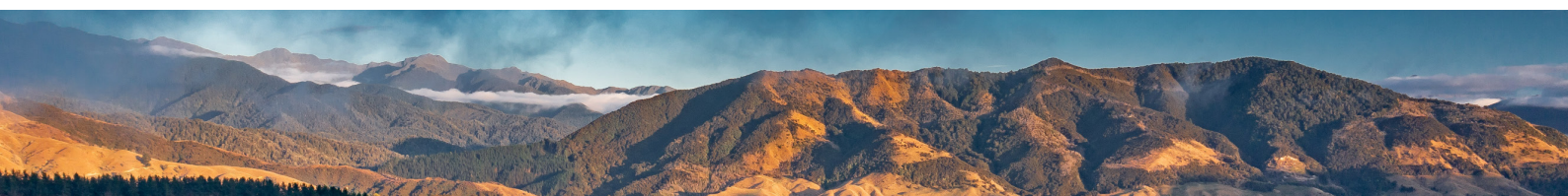
Unopened receptacles can be stored at ambient out of direct sunlight, however we recommend storing at a cool, stable temperature e.g. in a fridge.

For opened receptacles (where only part of the content is used), ensure oxygen is purged from the receptacle with CO₂ or inert gas following use and store at a cool, stable temperature e.g. in a fridge. We recommend using within 2-3 months of opening.

Do not freeze Amplifire™ fresh hop oil.

HANDLING

Always shake the receptacle well before using.





Clayton Hops
377 Waimea West Road
Brightwater, Tasman 7091
New Zealand
www.claytonhops.co.nz

SAFETY

Amplifire™ fresh hop oils are nontoxic. If product comes in contact with skin wash off with soap and warm water. For more information, please request Amplifire™ fresh hop oil Safety Data Sheet.

QUALITY AND FOOD SAFETY

Clayton Hops maintains a quality management system registered to ISO9001 standard and Food Safety Management Programme based on New Zealand Ministry of Primary Industries National Programme Level 3.

TECHNICAL SUPPORT

Clayton Hops is pleased to offer any support and advice on the use of T90 hop pellets in brewing applications. Please get in touch with our team.

