

# Brewing Supplies

## Online

### Hop Substitutes

Name	Origin	Alpha Acid	Characteristics	Substitute Hop
Amarillo	USA	8.0 – 11.0%	Used as aroma hop: Grapefruit, Orange, Lemon, flavour notes.	Cascade , Centennial, Simcoe,
Azacca	USA	14.0 – 16.0%	Citrus aroma. Spicy, tropical fruit, tangerine flavour notes.	Citra, Mosaic, Amarillo
Calypso	USA	12.0 – 14.0%	Fruity aromas with flavour notes of apple, pear, lime, citrus , and stone fruit	Mouteka, Cascade, Galena
Cascade	USA	4.5 – 9.0%	Has a unique Grapefruit, floral character with balanced bittering potential	Amarillo, Centennial
Centennial	USA	9.5 – 11.5%	Dual purpose hop. Provides bitterness with: earthy, floral, citrus aromas.	Cascade, Chinook
Challenger	UK	6.5 – 9.0%	Dual purpose hop. Floral aroma. Flavour notes of spice and citrus.	Northern Brewer, Perle
Chinook	USA	12.0 – 14.0%	Dual purpose craft brewing hop. Creates: Citrus, Pine, Spice aromas.	Columbus, Northern Brewer, Nugget
Citra	USA	10.0 – 15.0%	Aroma hop. Creates Citrus and Grapefruit, Lime, Gooseberry, Passionfruit aromas.	Galaxy, Taurus, Dr Rudi
Cluster	USA	6.0 - 9.0%	Dual purpose hop. Creates a Clean, Slightly Floral flavour notes.	Galena, Eroica
Crystal	USA	2.8 – 4.4%	Creates woody, floral to fruity like profile with notes of spices, cinnamon and pepper.	Mt Hood, Hallertau, Hersbrucker
Dr Rudi	NZ	10.0 -12.0%	Formerly Super Alpha. Produces grassy , pine, lemon citrus character	Citra
East Kent Golding	UK	5.0 – 6.0%	Aroma profile: Lavender, Spice, Honey, Thyme. Mildly bitter with Honey like flavour notes.	Fuggles
El Dorado	USA	13 - 17%	Tropical fruit flavours of mango & pineapple. Aroma profile of Pear, Water melon, Stone Fruit	Galena, Simcoe
Ella	AU	13.3 – 16.3%	Spicy aroma notes. Dry hop produces tropical and grapefruit flavours.	Cascade, Citra, Galaxy

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Fuggle	UK	2.4 – 6.1%	Aroma hop. Aroma notes of, Green tea, Mint, Grass, and Floral	Styrian Goldings, Willamette
Galaxy	AU	11.0 - 16%	Flavour notes of: Passionfruit, Peach, & Crisp Citrus.	Citra, Amarillo, Centennial
Galena	US	10.0 – 12.0%	Fruity flavour profile with clean citrus notes and for small boils black currant.	Nugget, Pride Of Ringwood, Cluster.
Green Bullet	NZ	11.0 – 15.0%	Dual purpose hop with smooth taste and aroma of raisins and fruit.	Fuggle, Willamette
Hallertau	GER	3.5 – 6.5%	Aroma hop. Noble hop used as base aroma hop due to its mild flowery to spicy aroma.	Liberty, Mt Hood
Helga	AU	5.5 – 7.5%	Multiple purpose hop. Pleasant refined character. Mild to spicy notes	Hallertau, Mt Hood
Hersbrucker	GER	2.0 – 5.0%	Aroma hop. Pleasant aroma profile: fruity, spicy, to floral.	Hallertau, Spalter Select, Mt Hood.
Lemon Drop	GER	2.5 – 5.2%	Aroma hop. Has aromas of lemon, mint, green tea and melon.	Sorachi Ace, Motueka, Liberty
Magnum	GER	10.0 – 14.0%	Bittering hop. Hoppy to floral aroma with subtle citrus flavour notes.	Northern Brewer, Columbus, Nugget
Mandarina Bavaria	GER	8.5 – 10.5%	Aroma hop. When used for dry hopping imparts notes of tangerine and citrus.	Columbus, Nugget, Cascade
Mosaic	USA	11.5 – 13.5%	Pleasantly hoppy with flavour notes of mango, citrus, pine, herbs. Aroma: Tropical fruits.	Simcoe, Citra
Motueka	NZ	6.5 - 8.5%	Dual purpose hop. Provides notes of tropical fruit and citrus.	Saaz, Sterling
Northern Brewer	GER	7.0 - 10.0%	Typically used as a first addition bittering hop.	Perle, Hallertau
Nugget	USA	9.5 -14.0%	Excellent bittering hop with light flavour and green to herbal aroma notes.	Chinook, Galena, Target

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Pacific Gem	NZ	13.0 - 15.0%	Aroma hop creating smooth aroma of Oak and Blackberries.	Galena, Magnum.
Perle	USA	8.0 - 9.0%	Bittering and aroma hop. Known for its pleasant aroma with hints of pine and spice.	Northern Brewer, Cluster, Galena.
Pride of Ringwood	AU	7.0 -11.0%	Powerful bittering hop with spicy fruity aroma when used as a late edition	East Kent Golding, Centennial, Cluster
Saaz	CZECH	2.5 - 4.5%	Distinct classical hop aroma hop with warm herbal notes.	Sterling, Motueka, Centennial, Amarillo.
Saphir	GER	2.0 – 4.5%	Features spice and fruit notes highlighted by hints of citrus and tangerine.	Hallertau, Spalter Select.
Simcoe	USA	12.0 - 14.0%	Popular with craft brewers. Offers a pleasant fruity, earthy, herbal to pine aroma.	Magnum, Amarillo, Cascade, Centennial.
Sorachi Ace	USA	13.0 – 16.0%	Bittering and aroma. Distinct lemon flavour with other notes of Orange , Dill and Cilantro.	Liberty, Lemon Drop, Saaz
Spalt Select	GER	3.0 – 6.5%	Mild flowery to spicy aroma,	Saaz, Tettnanger. Hallertau,
Target	UK	8.0 -12.5%	Mild spice to Citrus.	Fuggle, Willamette
Tettnanger	GER	4.0-6.0%	Soft spiciness with balanced floral herbal aroma.	Saaz, Spalt Select.
Vic Secret	AU	14.0 – 17.0%	Aroma hop. Offers clean and distinct tropical fruit, pineapple and pine characters.	Galaxy
Willamette	USA	4.0 – 6.0%	Aroma hop with spicy, fruity floral notes.	Fuggles, Tettnanger, Styrian Golding.

**Please note this is an abridged document relevant to the hops Brewing Supplies Online offers for purchase. At the time of release other hops may have emerged which did not make their way on to this list. Variants of the hops listed have been omitted to assist with ease of use of this document.**

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