

Variety	Aroma Characteristics	Country	Alpha	Beta	Cohumulone (of Alpha Acids)	Oils ml/100g	Myrcene (of total oil)	Caryophyllene (of total oil)	Humulene (of total oil)	Farnesene (of total oil)
Admiral	Light, Fresh & Sappy	UK	13.0 - 16.0%	4.8 - 6.1%	37 - 45%	1.0 - 1.7	39 - 48%	6.8 - 7.2%	23 - 26%	1.8 - 2.2%
Ahtanum	Floral & Citrusy	US	5.7 - 6.3%	5.0 - 6.5%	30 - 35%	0.8 - 1.2	50 - 55%	9.0 - 12%	16 - 20%	0.0%
Amarillo®	Floral & Citrusy	US	8.0 - 11.0%	6.0 - 7.0%	21 - 24%	1.5 - 1.9	68 - 70%	2.0 - 4.0%	9 - 11%	2.0 - 4.0%
Aramis	Herbal, Spicy & Citrus	France	7.0 - 8.5%	3.8 - 4.5%	21.5 - 21.7%	1.2 - 1.6	40%	8%	21%	2%
Bramling Cross	Spicy & Fruity	UK	5.0 - 7.0%	2.3 - 3.2%	34%	0.7 - 1.0	36%	15%	30%	<1%
Cascade	Floral & Citrusy	US	4.5 - 7.0%	4.8 - 7.0%	33 - 40%	0.7 - 1.4	45 - 60%	3.5 - 5.5%	8 - 13%	3.0 - 7.0%
Celeia	Spicy & Citrusy	Slovenia	4.5 - 6.0%	2.5 - 3.5%	25 - 30%	0.5 - 1.0	27 - 33%	7 - 10%	20 - 35%	3 - 5%
Centennial	Floral & Citrusy	US	9.5 - 11.5%	3.5 - 4.5%	29 - 30%	1.5 - 2.5	45 - 55%	5.0 - 8.0%	10 - 18%	<1%
Challenger	Mild & Spicy	UK	6.5 - 8.5%	4.0 - 4.5%	20 - 25%	1.0 - 1.7	30 - 42%	8 - 10%	25 - 32%	1 - 3%
Chinook	Spicy & Citrusy	US	12.0 - 14.0%	3.0 - 4.0%	29 - 35%	1.7 - 2.7	35 - 40%	9.0 - 11.0%	18 - 23%	<1%
Citra®	Citrusy & Fruity	US	11.0 - 13.0%	3.5 - 4.5%	22 - 24%	2.2 - 2.8	60 - 65%	6.0 - 8.0%	11 - 13%	0.0%
Cluster	Floral & Spicy	US	5.5 - 8.5%	4.5 - 5.5%	37 - 43%	0.4 - 0.8	45 - 55%	6.0 - 7.0%	15 - 18%	<1%
Columbus	Aromatic & Pungent	US	14.5 - 16.5%	4.0 - 5.0%	28 - 32%	2.0 - 3.0	40 - 50%	9.0 - 11.0%	12 - 18%	<1%
Crystal	Spicy & Floral	US	3.5 - 5.5%	4.5 - 6.5%	20 - 26%	1.0 - 1.5	40 - 65%	4.0 - 8.0%	18 - 24%	<1%
Delta	Spicy & Citrusy	US	5.5 - 7.0%	5.5 - 7.0%	22 - 24%	0.5 - 1.1	25 - 40%	9.0 - 15.0%	16 - 20%	<1%
East Kent Goldings	Spicy & Citrusy	UK	4.5 - 6.5%	1.9 - 2.8%	28 - 32%	0.4 - 0.8	20 - 30%	12 - 16%	38 - 44%	<1%
El Dorado®	Fruity & Tropical	US	14.0 - 16.0%	7.0 - 8.0%	28 - 33%	2.5 - 2.8	55 - 60%	6.0 - 8.0%	10 - 15%	0.1%
Ella (formally Stella)	Grapefruit & Tropical	Australia	14.0 - 16.0%	4.0 - 4.5%	36%	2.9	33%	15%	12%	13%
First Gold	Spicy & Fruity	UK	5.6 - 9.3%	2.3 - 4.1%	32 - 34%	0.7 - 1.5	24 - 27%	6 - 7%	20 - 24%	2 - 4%
Fuggles	Mild, Minty & Earthy	UK	3.0 - 5.6%	2.0 - 3.0%	25 - 30%	0.7 - 1.4	24 - 28%	9 - 13%	33 - 38%	5 - 7%
Galaxy	Citrus & Passion Fruit	Australia	13.5 - 14.8%	5.8 - 6.0%	35%	2.4 - 2.7	33 - 42%	9 - 12%	1 - 2%	4 - 6%
Goldings	Citrus & Floral	UK	4.0 - 6.0%	2.0 - 3.0%	23 - 28%	0.7 - 1.0	25 - 35%	13 - 16%	35 - 45%	<1%
Hallertau Hersbrucker	Fragrant, Floral & Minty	Germany	1.5 - 4.0%	2.5 - 6.0%	17 - 25%	0.5 - 1.0	15 - 30%	8 - 13%	20 - 30%	<1%
Hallertau Tradition	Herbal, Fruity & Spicy	Germany	4.0 - 7.0%	3.0 - 6.0%	24 - 30%	0.5 - 1.0	17 - 32%	10 - 15%	35 - 50%	<1%
Helga	Delicate Floral & Subtle Herbal	Australia	4.9 - 6.3%	3.8 - 5.4%	22.2 - 26.0%	0.6 - 0.7	2 - 12%	10 - 14%	35 - 47%	<1%
Liberty	Mild & Spicy	US	3.0 - 5.0%	3.0 - 4.0%	24 - 30%	0.6 - 1.2	20 - 40%	9.0 - 12.0%	35 - 40%	<1%
Magnum	Clean Bitterness & Citrusy	Germany	11.0 - 16.0%	5.0 - 7.0%	21 - 29%	1.6 - 2.6	30 - 45%	8 - 12%	30 - 45%	<1%
Marynka	Strong & Hoppy	Poland	6.0 - 12.0%	10.2 - 13.0%	26 - 33%	1.8 - 2.2	28 - 31%	11 - 12%	26 - 33%	1.8 - 2.2%
Mount Hood	Mild & Herbal	US	4.0 - 7.0%	5.0 - 8.0%	21 - 23%	1.2 - 1.7	30 - 40%	13.0 - 16.0%	30 - 38%	<1%
Mount Rainier	Floral & Citrusy	US	5.0 - 8.1%	5.0 - 7.0%	21 - 24%	0.2 - 0.5	TBC	TBC	TBC	TBC
Northdown	Floral, Mint & Earthy Notes	UK	7.5 - 9.5%	5.0 - 5.5%	24 - 30%	1.5 - 2.5	23 - 29%	13 - 17%	40 - 45%	<1%
Perle	Intense & Pleasant	Germany	4.0 - 9.0%	2.5 - 4.5%	29 - 35%	0.5 - 1.5	20 - 35%	10 - 20%	35 - 55%	<1%
Phoenix	Crisp & Pleasant	UK	12.0 - 15.0%	3.3 - 5.3%	24 - 28%	1.2 - 2.5	24%	11%	30%	1.4%
Pilgrim	Strong & Fruity	UK	9.0 - 13.0%	4.3 - 5.0%	36 - 38%	1.2 - 2.4	30%	7 - 8%	~17%	0.3%
Pride of Ringwood	Spicy & Herbal	Australia	9.0 - 10.5%	5.5 - 6.0%	32%	0.9 - 1.1	16 - 31%	9 - 13%	2 - 3%	0%
Progress	Floral, Mint & Earthy Notes	UK	5.0 - 7.0%	2.0 - 2.5%	25 - 30%	0.6 - 1.2	30 - 35%	12 - 15%	40 - 47%	<1%
Saaz	Intense & Pleasant	Czech Rep	3.0 - 6.0%	4.5 - 8.0%	23 - 26%	0.4 - 1.0	25 - 40%	10 - 12%	15 - 25%	14 - 20%
Saphir	Spicy, Fruity & Floral	Germany	2.0 - 4.5%	4.0 - 7.0%	12 - 17%	0.8 - 1.4	25 - 40%	9 - 14%	20 - 30%	<1%
Simcoe	Unique & Pine-Like		12.0 - 14.0%	4.0 - 5.0%	15 - 20%	2.0 - 2.5	60 - 65%	5.0 - 8.0%	10 - 15%	0.0%
Sorachi Ace	Unique & Citrusy	US	10.0 - 16.0%	6.0 - 7.0%	~23.0%	2.0 - 2.8	TBC	TBC	TBC	TBC
Sovereign	Intense, Fruity & Pleasant	UK	4.5 - 6.5%	2.1 - 3.1%	26 - 30%	0.6 - 1.0	TBC	~8.0%	TBC	~3.6%
Spalter Select	Spalt-like, Spicy & Floral	Germany	3.0 - 6.5%	2.5 - 5.0%	21 - 27%	0.6 - 0.9	20 - 40%	4 - 10%	10 - 22%	15 - 22%
Summer	Subtle Apricot & Melon	Australia	4.0 - 7.0%	4.8 - 6.1%	22.5 - 25%	0.9 - 1.3	5 - 13%	14 - 15%	42 - 46%	10%
Summit	Citrusy	US	16.0 - 18.0%	4.0 - 6.0%	26 - 33%	1.5 - 2.5	30 - 50%	10.0 - 15.0%	15 - 25%	<1%
Sylva	Spicy & Herbal	Australia	4.6 - 7.0%	3.0 - 4.6%	24 - 28%	0.5 - 1.1	17 - 23%	6 - 9%	19 - 26%	23 - 25%
Target	Spicy & Citrusy	UK	9.5 - 12.5%	4.3 - 5.7%	35 - 40%	1.2 - 1.4	45 - 55%	8 - 10%	17 - 22%	<1%
Tettnang Tettnanger	Mild & Slightly Spicy	Germany	2.5 - 5.5%	3.0 - 5.0%	22 - 28%	0.5 - 0.9	20 - 35%	6 - 11%	22 - 32%	16 - 24%
Topaz	Earthy, Fruity & Lychee	Australia	15.5 - 18.0%	6.0 - 7.0%	47 - 50%	0.8 - 1.7	25 - 43%	10 - 11%	11 - 13%	0%
WGV	Sweet & Slightly Fruity	UK	5.4 - 7.7%	2.0 - 3.3%	32 - 43%	0.8 - 1.2	27%	13%	42%	2.1%
Willamette	Mild & Spicy	US	4.0 - 6.0%	3.5 - 4.5%	30 - 35%	1.0 - 1.5	30 - 40%	6.5 - 8.2%	20 - 27%	5.0 - 6.0%