

MAROMA

| Chmel' | Characteristika | Intenzita | Alfa Kyseliny | Použitie | Zámena za |
|-----------------------|--------------------------------------------------------------------------------|-----------|---------------|---------------------------------------------------------------------------|---------------------------------------------------------|
| Admiral | Pleasant resinous +orange, citrus | 9/10 | 13-17% | British ales works well with malty flavours | Challenger, Northdown, Centennial, Target |
| Agnus | Citrus and spicy | 8/10 | 11-14% | Clean high alpha pilsners, lagers, german ales. | Magnum, Target. |
| Ahtanum | Floral, earthy + citrus, grapefruit | 7/10 | 3.5-7% | Mid bittering but high aroma - pale ales, light lagers | Cascade, Amarillo, |
| AlphaAroma (rakau) | AKA Rakau - orchard fruit and some pine needle | 9/10 | 6-11% | Dual purpose - pale ales and lagers, brash fruit and good bitterness | Amarillo, Summit |
| Amarillo | Strong grapefruit /orange bitter +spicy+light floral | 9/10 | 8-11% | US ipa, pale ales, Imperial IPA's, Belgian pales | Cascade, Centennial, Simcoe |
| Amethyst | Citrus, earthy, spicy | 5/10 | 3-6% | Czech lagers and pale ales | Saaz, Hallertauer, |
| Apollo | Resinous, strong, herbal | 8/10 | 15-19% | High alpha bittering for IPA's Strong grapefruit on late additions | Nugget, Columbus, Zeus, Magnum, Millenium |
| Aramis | Sweet spicy hints of citrus & herb (strisselspalt/wgv cross) | 5/10 | 6-8% | Triples, Saisons, Pale Ales, Wit Biers and Porters | Willamette, Challenger, Strisselspalt |
| Archer | Apricot, floral, lime and peach | 6/10 | 4-6% | British aroma +citrus twist good for lagers and ales | Santiam, Summer |
| Atlas | Floral, lime, pine (Brewers Gold/Slov wild hop cross) | 6/10 | 9-11% | US pale, belgian pale ales aroma hop | Aurora, Styrian Goldings |
| Aurora | Floral, lime +pine (bred from N brewer) | 6/10 | 5-9% | US, UK, Belgian Ales - for aroma | Styrian Golding, Atlas, Northern Brewer, fuggles |
| Azacca | Citrus mango and pine | 8/10 | 14-16% | Dry and late hopping big tropical aromas dual purpose for IPA | Amarillo, Citra, Delta. |
| Baron | Floral peach (CF113) | 5/10 | 4.5-7% | English Ales | WGV. |
| Beata | Honey, apricot and almond, high Beata acids make this surprisingly good | 6/10 | 3-6% | Golden Ales and Blondes plus English Bitters | Boadicea, Cascade, Summer, Huell Melon. |
| Belma | Floral, pineapple, Strawberry. use lots for best effect. good with Citra, Cali | 7/10 | 8-11% | Try big quantities in a pale ale with a good citrusy hop | Fuggles |
| Bishop | Earthy, honey | 5/10 | 4.5-6% | Pleasant british ale hop | Green bullet, cascade, columbus, chinook, |
| Boadicea | Spicy light and floral | 6/10 | 6-9% | light bodied and rounded good for dry hopping | Styrian Golding, Fuggles, Willamette. |
| Bobek | Styrian bobek - spicy floral, lemon +piney | 8/10 | 3.5-7% | UK and Belgian Ales, lagers and Pilsners | Tradition, Tettang, Spalter. |
| Bouclier | Floral grassy herby (strisselspalt/EKG cross) | 4/10 | 7-9% | Saison or Pilsner bittering, UK and Belgian ale aroma hop. | Progress, EKG, WGV |
| Bramling Cross | Strong spicy blackcurrant. American aroma. | 8/10 | 5-8% | Great in cask, dual purpose and good in most beer styles | Magnum, Nugget |
| Bravo | Good bittering pine and resin with pleasant fruity plum and floral aromas | 8/10 | 14-17% | High alpha bittering for IPA's Strong grapefruit on late additions | Galena, Cascade, Bramling Cross |
| Brewers Gold | Blackcurrant and a little spice - good lager bittering hop but can do stouts | 7/10 | 5-8% | High resin for bittering which would be well complimented by late hc | Columbus, Northern Brewer, Brewers Gold. |
| Bullion | The original Guinness hop, dark fruit and spicy | 8/10 | 8-11% | Nice in anything dark and malty | Belma, Cascade. |
| Calypso | Fruity pear and apple | 9/10 | 11-14% | Dual purpose for fruity flavours and complex aromas | Centennial, Amarillo, Columbus, Ahtanum. |
| Cascade | Floral Spicy grapefruit + lychee perfume like aromas | 9/10 | 5-9% | IPA's, APA's. | Saaz, bobek, Styrian Goldings, |
| Celeia | Floral, lemon, Lime. | 8/10 | 2-5% | Works well in lagers and pale malt ales | Columbus + Cascade, Chinook, Galena, Nugget. |
| Centennial | Herbal, Lemon, resin - super cascade. | 9/10 | 7-11% | IPA's, APA's, Bitters. | Perle, Northern Brewer, Galena, Nugget. |
| Challenger | Refreshing full bodied cedar, green tea, spicy. | 7/10 | 5-9% | Good all round bittering&pleasant aroma hop, good in blends. UK + | Nugget, Northern Brewer, Columbus, Galena. |
| Chelan | Blackcurrant, grapefruit, spicy. | 6/10 | 12-15% | IPA's and APA's. Good bittering. | Simcoe, Cascade, Centennial, Mosaic. |
| Chinook | Citrus, grapefruit, pine high aroma hop. | 9/10 | 11-15% | Unusual aroma. spicy and piney with some grapefruit, IPA's, APA's | Galena, Erioca. |
| Citra | Lime, mango, tropical fruit. | 9/19 | 11-14% | Bright citrusy flavours nice in pale ales | Chinook, Nugget, Zeus. |
| Cluster | Well balanced bittering and deep fruity aroma - blackberry +spice. | 6/10 | 6-9% | Strong hop/fruit aroma good in darker brews. | Galena, Summit. |
| Columbus (tomahawk) | AKA Tomahawk, also same as Zeus. Pepper and liquorice. | 9/10 | 14-20% | High alpha bittering for IPA's Strong grapefruit on late additions | Liberty, Mount Hood, Hallertauer. |
| Cornet | Grapefruit, spicy. | 8/10 | 9-11% | Good for lager bittering and possible US IPA's. | Galena, Chinnok, Nugget |
| Crystal | Citrus, tangerine. | 6/10 | 3-6% | Flexible low alpha hop lets the aromas shine through. | Goldings, Progress. |
| CTZ | Columbus, Tomahawk, Zeus - grouped together as similar super high al | 9/10 | 14.5-16.5% | High alpha bittering for IPA's Strong grapefruit on late additions | Bobek, Celeia. |
| Crusader | CF102 - Floral, Spicy, Sweet. | 5/10 | 4-5% | Developmental hop good for British Ales. | Nelson Sauvin, Cascade. |
| Dana | Floral, Lemon, Pine. | 9/10 | 9-13% | Belgian Pales. | Green Bullet. |
| Delta | Pear, pineapple. | 5/10 | 4-7% | Intense lush aroma. | Fuggles, Goldings. |
| Dr Rudi | Grassy, lemon, pine needles. | 8/10 | 11-14% | Nice paired with Summer + anywhere you want resin, citrus and pin | Goldings, Progress, Sovereign. |
| Duchess | CF103. Floral, peppery, spicy. | 7/10 | 4-5% | British Ales. Saisons. | Galena. |
| EKG | East Kent Goldings, Sweet, smooth and honey like, earthy and a little spi | 6/10 | 5-8% | Good dual purpose in most British and some Belgian ales. | Delta, Citra. |
| El Dorado | Apricot, Peaches. | 6/10 | 13-17% | Dual purpose robust fruit aromas, IPA's APA's. | Cascade, Bramling Cross. |
| Ella | Apricot, cedar, peach. | 7/10 | 14-16% | Spicy in the boil, fruity in later additions. | Bullion, Brewers Gold, Galena. |
| Endavour | Blackcurrant, grapefruit, spicy. (cascade/hedgerow cross) | 7/10 | 5-9% | Well rounded and fruity bittering. Great for all UK ales. | Galaxy, Citra. |
| Eroica | Spiky fruity aroma and punchy bitterness. | 8/10 | 12-15% | Adds fruity flavours to lagers, IPA's, pale ales, bitters, porters and wh | Pac Gem/Pac Jade/ |
| Equinox | Citrus, tropical, floral and herbal - | 7/10 | 14-16% | Diverse and pronounced aroma likely to suit IPA.s | Willamette, EKG, Styrian Goldings. |
| Falconers Flight | Tropical, floral, lemon and grapefruit. | 8/10 | 9.5-12% | Pronounced marmalade aromas good dual purpose in all beer style | Pilgrim, Phoenix, Bramling Cross. |
| First Gold | Orange marmalade, slight spice. | 6/10 | 6-9% | Quite intense flavours - good in darker beers | Willamette, EKG. |
| Flyer | Caramel, Citrus, Liquorice, slightly burnt notes. | 7/10 | 9-12% | All English beer styles and Belgian ales. | Centennial, Citra. |
| Fuggles | Minty, grassy slightly floral. | 6/10 | 4-7% | Strong and bright citrus aromas good for IPA's | Bullion, CTZ, Brewers Gold. |
| Galaxy | Passionfruit, peaches. | 8/10 | 13-15% | IPA's to Stouts. | Willamette, Fuggles, Styrian Goldings, Tettang. |
| Galena | Most used US bittering hop - strong Tomcat/Blackcurrant aromas | 6/10 | 10-14% | Pale Ales | EKG, Willamette, Strian Goldings. |
| Glacier | Citrus, earthy, grassy. | 4/10 | 4-7% | All british ales styles | Liberty, Hallertauer, Mount Hood. |
| Goldings | Earthy, honey, spicy. | 6/10 | 4-8% | NZ IPA bittering hop, ESB's, IPA's and Lagers. | Nelson Sauvin. |
| Green Bullet | Big pepper, lemon and pine aromas and punchy bittering | 7/10 | 10-13% | Great Substitute for Nelson Sauvin | Mount Hood, Strisselspalt, Mittelfruh. |
| Hallertau Blanc | Floral, gooseberry, lemongrass | 5/10 | 9-12% | Lagers and light English Ales. | |
| Hallertau Hersbrucker | Floral and herbal. | 6/10 | 2-4% | | |

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| Hallertau Mittelfruh | Floral, grassy, herbal. | 6/10 | 3-6% | Lagers and light English Ales. | Liberty, hersbrucker. |
| Harmione | Czech aroma hop | 5/10 | 5-8% | Lagers and light English Ales. | Saaz |
| Herkules | Black pepper, pine and spice. | 8/10 | 16-20% | High bittering German hop | Warrior |
| Huell Melon | Apricot, melon, strawberry. | 4/10 | 6-8% | Belgian ales, and Hefeweizens. | Jarrylo, Belma. |
| Jaryllo | Orange, pear and spice. and banana. | 4/10 | 15-17% | Wheat beers, Saisons, Pale Ales. | Huell Melon, |
| Jester | Blackcurrant, grapefruit, lychee. | 8/10 | 7-9% | Bold aromas for UK beer styles. | Cascade. |
| Junga | Blackcurrant grapefruit spicy | 8/10 | 10-13% | Bittering for IPA's and Lagers | Target, galena |
| Kazbek | Grapefruit, lemon, spicy. | 8/10 | 5-8% | Pilsners, lagers, belgian ales, aroma and dry hopping. | Saaz. |
| Kohatu | Floral, pine, tropical fruit. | 9/10 | 5-7% | Pale ales and IPA.s Fruity rounded flavours and aromas. | Wai-ti, Wakatu, Motueka. |
| Liberty | Lemon, earthy, spicy. | 6/10 | 3-5% | lagers and Pale ales. | Mittelfruh, Mount Hood. |
| Lubelski | Earthy, floral, herbal. | 5/10 | 3-5% | Lagers and belgian ales. | Saaz. |
| Magnum | Herbal, Pine, Resin. | 8/10 | 11-15% | good clean bittering for all high alpha beer styles | Galena, Nugget, Horizon, |
| Marynka | Floral, herbal, Resinous. | 6/10 | 8-10% | Dual purpose for Pilsners and pale ales. | Strisselspalt, Tettngang. |
| Mandarina Bavaria | Tangerine, fruity and sweet. | 7/10 | 8-11% | Pleasant fruitiness | Cascade. |
| Millenium | Primarily bittering with high alpha capabilities, herb,+pineapple+resin | 7/10 | 14.5-16.5% | High alpha bittering for IPA's Strong grapefruit on late additions | Nugget, CTZ |
| Minstrel | herbal, orange, spiced berries. | 6/10 | 5-7% | Mild bitterness similar to Challenger | Challenger. |
| Mosaic | Blueberry, citrus, tropical | 9/10 | 11-14% | versatile hop dual purpose/aroma for all beer styles. | Simcoe, Nugget, TnT |
| Motueka | AKA B Saaz. Lively lemon and lime, some floral. | 8/10 | 5-8% | Bright fresh flavours good for lagers and pale ales | Saaz, Sterling. |
| Mount Hood | Grapefruit, herbal. | 6/10 | 4-7% | Lager and british ales. | Hersbrucker, Liberty, Crystal, Strisselspalt. |
| Multihead (medusa) | AKA Medusa. Mexican hop. Very floral. | 7/10 | 4-5% | | |
| Nelson Sauvin | gooseberry aromas and grapefruit bitterness | 9/10 | 10-13% | Versatile fruity aroma for IPA's and APA's and some lagers. | Hallertau Blanc |
| Newport | Cedar, esthery, herbal. | 7/10 | 13-17% | American ales. | Magnum, Nugget, Galena. |
| Northdown | Cedar, pine, spice. | 7/10 | 6-9% | Adds fresh aroma and light floral notes to all beer styles. | Challenger, Northern Brewer. |
| Northern Brewer | Herbal, Resinous, Spicy. | 6/10 | 5-9% | good bittering and pleasant aroma. | Chinook, Brewers Gold. |
| Nugget | Peach, pear, spicy. | 6/10 | 10-14% | IPA's, ESb's, Barley wines. | Galena, Magnum. |
| Olicana | Grapefruit, mango, passionfruit. | 8/10 | 7-9% | Complex bitterness with citrus and tropical fruits - IPA's and APA's. | Cascade. |
| Opal | Well balanced aroma hop floral, fruity, herbal and hoppy. | 5/10 | 5-8% | Helles, pilsner, hefeweizens. | Tettngang, EKG, Savinjski. |
| Pacific Gem | Blackberry, floral and oak. | 7/10 | 13-18% | Great bittering for all strong ales and lager. | Galena, |
| Pacific Jade | Black pepper, herb and lemon zest. | 8/10 | 12-14% | Bold aromas and soft bitterness for lagers and pale ales. | Pac gem, |
| Pacifica | Citrus, herbal, orange. | 6/10 | 4-8% | Pilsners, lagers, Helles. | Perle, Mittelfruh. |
| Palisade | Blackcurrant, citrus, grapefruit. | 7/10 | 6-10% | IPA, English Bitters, pale ales. | Willamette, Styrina Goldings. |
| Perle | Cedar, orange, spicy. | 7/10 | 6-9% | Clean bittering and spicy floral aromas. | Mittelfruh, Northern Brewer. |
| Phoenix | Chocolate, molasses, spicy. | 5/10 | 9-12% | Bitters, Stouts and Porters. | Northdown, Challenger, EKG. |
| Pilgrim | Cedar, honey, spice. | 6/10 | 9-12% | refreshing hoppy aroma, good dual purpose, lifts dark beers. | Target, Pioneer, Challenger. |
| Pilot | Lemon marmalade, spicy. | 5/10 | 7-10% | clean and crisp, different to other UK hops, bitters, IPA's, APA's. | Galena. |
| Pioneer | cedar, grapefruit, herbal. | 8/10 | 9-12% | Distinctive lemony aroma. | EKG. |
| Polaris | Pine, spicy, minty. | 9/10 | 19-23% | Bitters, IPA's. Quite minty. | |
| Premiant | earthy, floral, herbal. | 5/10 | 6-10% | IPA, Belgian Ales, APA, Unique aroma. | Saaz. |
| Pride of Ringwood | Cedar, herbal, oak. | 5/10 | 9-12% | Aus lagers, pale ales, lambics. | EKG, Centennial, Galena, Cluster. |
| Progress | Grassy, honey, spicy. | 6/10 | 5-8% | Belgian ales, IPA.s. | Fuggles, Goldings. |
| Rakau | Passionfruit, pine, tropical fruit. | 9/10 | 11-14% | Aus pale ales and IPA's. | Amarillo, Summit. |
| Saaz | earthy, floral, herbal. | 6/10 | 2-5% | Budvar. All european lagers. | Lublin, Hallertau, |
| Santiam | Herbal, lemon, peach. | 6/10 | 4-7% | Belgian, pilsners, bocks, helles. | tettngang, Mittelfruh. |
| Sapphir | Floral, herbal. | 5/10 | 12-17% | Belgians, wheat beers. | Mittelfruh. |
| Savinjski Golding | earthy, lemon, lime. | 8/10 | 2-4% | Belgian Ales. | Fuggles, Bobek. |
| Select | Earthy, floral, herbal. | 5/10 | 2-5% | Lager. | Saaz, tettngang, hersbrucker, spalt. |
| Simcoe | Grapefruit, passionfruit, pine. | 9/10 | 11-15% | IPA's. | Summit, Citra, Mosaic. |
| Sladek | earthy, floral, spicy. | 6/10 | 6-8% | Lager | Northern Brewer, Saaz. |
| Sonnet | Herbal, honey, oak. | 5/10 | 3-6% | Lager, pale ales. | Saaz, EKG, Crystal. |
| Sorachi Ace | Coconut, lemon, dill. | 7/10 | 10-14% | Lager, IPA, Pale ales. The Sapporo hop. | Citra/Somcoe. |
| Southern Cross | Lemon peel, pine. | 7/10 | 11-14% | Citrusy lagers, fruity ales. | Simcoe. |
| Sovereign | earthy, floral, grassy. | 6/10 | 4-7% | wheat, lagers, pales, porters - all UK and belgian - lighter and fresh | Pioneer, Fuggles. |
| Sterling | Lemon, pineapple, spicy. | 6/10 | 5-9% | pale ales and lager, belgian ales. | Saaz, lublin, mount hood. |
| Stichelbract | Lemon, pine, resin. | 7/10 | 12-15% | pale ales. | Northern Brewer. |
| Strisselspalt | floral, herbal. | 4/10 | 2-5% | Aromatic for saisons and belgian ales. | Mount Hood, Crystal, Hersbrucker. |
| Summer | Apricot, Melon. | 6/10 | 4-7% | Good dual purpose | Belma/Palisade. |
| Summit | Great bittering with earthy aroma and citrus notes | 7/10 | 16-18% | High alpha bittering for IPA's Strong grapefruit on late additions | CTZ, Warrior, Simcoe |
| Sussex | Earthy, grassy, minty. | 5/10 | 4-7% | British Ales. | Fuggles, EKG. |
| Super Galena | Great bitterness and pleasant aroma | 7/10 | 13-16% | High alpha bittering for IPA's Strong grapefruit on late additions | Galena |
| Sybilla | Floral, lemon, pine. | 7/10 | 6-8% | Pale ales, barley wines and stouts. | Lublin, Northern Brewer, Perle. |
| Target | Cedar, liquorice, pine. | 9/10 | 9-12% | Bittering for UK ales. | Fuggles, Willamette. |
| Tettngang | Earthy, floral, herbal. | 5/10 | 4-7% | Lager, wheat beer, german ales, belgian ales. | Saaz, Spalter, Fuggles. |
| Topaz | Fruit cake, resin, spciy. | 5/10 | 15-18% | Dual purpose, IPA's, pale ales and dark ales. | Summit, Apollo. |
| Tradition | Floral, grassy, herbal. | 5/10 | 4-7% | Lager. | Mittelfruh. |
| Triskel | Fruity, spicy. | 6/10 | 8-9% | Belgian ale aroma hop. | Ahtanum, Centennial, Chinook, Simcoe. |
| Ultra | Earthy, Floral, herbal. | 5/10 | 2-4% | Lager aroma hop | Liberty, Hallertau |
| Vangaurd | Blackcurrant, floral, herbal. | 5/10 | 5-7% | Aroma hop for belgian ales | Hallertau, Liberty, Mount Hood, |
| Wai-ti | Lemon, lime, mandarin. | 6/10 | 2-4% | Good aroma hop for summer ales | Riwaka, Summer. |
| Waimea | Citrus, pine, tangerine. | 9/10 | 16-19% | IPA's. | Pacific Jade |
| Wakatu | Floral, vanilla, lime. | 7/10 | 7-10% | Good dual purpose for lager, bocks, pilsners and pale ales. | Hallertau Mittefruh. |
| Warrior | herbal, pine, resin. | 6/10 | 13-15% | IPA, Imperial's. | Columbus, Mangnum, Nugget. |
| WGV (whitbread goldings) | earthy, herbal, spice. | 7/10 | 5-8% | More bite than Goldings, fresh earthy and botanical. Good in pale ales | EKG, Progress. |
| Willamette | Blackcurrant, floral, spicy. | 6/10 | 4-7% | Mild and pleasant with slightly spicy tones nice in Uk ales | Fuggles, Tettngang, Savinjski, Glacier. |