

NOME	CARACTERÍSTICA	USO	ALFA ÁCIDO %	BETA ÁCIDO %	TOTAL DE ÓLEOS	SUBSTITUTO	ESTILO INDICADO	ORIGEM
Admiral	Típico inglês, muito conhecido por seu potencial de amargor.	Amargor	13 - 16.2%	4.8 - 6.1%	1.0 - 1.7	Amarillo, Cascade USA, Centennial, Chinook, U.K. Challenger, U.K. Northdown, U.K. Target	Extra special Bitter (ESB), India Pale Ale, English Bitter, Pale Ale, Ale, English Ale, Belgian Ale, French Ale, Barleywine, Imperial stout, English Strong Ale, Scottish Strong Ale, Scottish Ale, Porter, Scout	Reino Unido
Ahtanum	Floral, cítrico, ácido e pinho.	Aroma	4.0 - 6.5%	5.0 - 6.5%	0.8 - 1.2	Amarillo, Cascade, Centennial, Simcoe, Perle, Challenger	American Ale, American Amber, Pale Ale, India Pale Ale, Lager, Brown Ale, Porter, Scout	Estados Unidos
Agnus	Picante	Amargor	12 - 16 %	6.0 - 9.0 %	2.5 - 3.0		Lagers, Ales, Stout	Republica Checa
AlphAroma		Ambos	5.8 - 10.9%	2.4 - 4.8%	1.0 - 1.5		Pale Ale, Lager	Nueva Zelanda
Amarillo	Floral, tropical, tons cítricos e laranja, doce.	Aroma	5.0 - 11%	6.0 - 7.0%	1.5 - 1.9	Cascade, Centennial, Summit, Ahtanum, Chinook, Simcoe	American Ale, American Amber e Pale Ale, OPI, India Pale Ale, Belgian India Pale Ale, Doble India Pale Ale, Porter, Scout	Estados Unidos
Apollo	Aroma agradável	Amargor	15 - 19%	5.5 - 8.0%	1.5 - 2.5	Zeus, Nugget, CTZ	American Ale, American Amber, English Bitter, Pale Ale, India Pale Ale, Barleywine, Imperial stout, Belgian Ale, French Ale	Estados Unidos
Aquila		Aroma	5.0 - 7.5%	2.3 - 3.2%		Cluster, Galena	American Ale	Estados Unidos
Atlas		Amargor	6.0 - 9.5%	3.0 - 5.0%		Brewer's Gold		Eslovenia
Aurora (Super Styrian)	Intenso, mas agradável	Aroma	6.0 - 9.5%	2.7 - 5.0 %	0.9 - 1.6	Northern Brewer, Styrian Bobek, Styrian Golding	Ale, European Dark Lager, European Pale Lager, German Amber Lager, Kölsch, Altbier	Eslovenia
Banner		Amargor	7.0 - 10%	3.0 - 5.0%		Cluster, Aquila	Bitter, American Lager	Estados Unidos
Bramling		Ambos	5.0 - 7.0%	2.3 - 3.2%	0.7 - 1.0			Reino Unido
Bramling Cross	Aroma muito suave, com frutado de groselha.	Ambos	5.0 - 7.8%	2.3 - 3.2%	0.7 - 1.2	U.K. Kent Golding, U.K. Progress, Whitbread Golding Variety	Golden Ale, Rye Ale, India Pale Ale, Stout, Barleywine, Imperial stout, English Bitter, Pale Ale, Holiday Ale, Belgian Ale, French Ale, English Strong Ale, Scottish Strong Ale, Scottish Ale, Porter, Scout	Reino Unido
Bravo	Terroso, picante, floral e de frutas. Aromático e agradável.	Amargor	14 - 17%	3.0 - 5.0%	1.6 - 2.4	Apollo, Zeus, CTZ, Nugget	American India Pale Ale, American Amber e Pale Ale, American Ale	Estados Unidos
Brewer's Gold (UK)	Notas de groselha, resinoso, picante	Amargor	5.0 - 9.0%	2.5 - 3.5%	1.8 - 2.2	Bullion, Chinook, Galena, Northdown, Northern Brewer, Nugget	English Ale, Belgian Ale, French Ale, European Dark Lager, Lambic, Saison, Barleywine, Imperial stout, Bock, English Strong Ale, Scottish Strong Ale, English Bitter, Pale Ale, India Pale Ale, Porter	Reino Unido
Brewer's Gold (US)	Notas de groselha, frutado e especiarias.	Amargor	7.0 - 10%	3.5 - 4.5%	2.0 - 2.4	Bullion, UK Brewer's Gold, Galena, Northdown, Northern Brewer, Chinook, Nugget	English Ale, Belgian Ale, French Ale, Pilsner, Lambic, Saison, Barleywine, Imperial stout, Brown Ale, English Strong Ale, Scottish Strong Ale, Scottish Ale, English Bitter, Pale Ale, India Pale Ale, Porter, Scout	Estados Unidos
British Columbia Golding		Ambos	4.0 - 7.0%			East Kent Golding, Golding (American), Fuggle, Willamette	English Pale Ale, Stout, Porter	Canada
Boadicea	Ligeramente picante.	Ambos	8.0 - 9.5 %	3.5 - 4.5 %	1.3 - 1.5		English Ale, Lager	Reino Unido
Bobek (Styrian Golding B)	Intensa, mas agradável, levemente picante.	Aroma	3.5 - 7.8 %	4.0 - 6.1 %	0.7 - 4.0	Styrian Golding, UK Fuggle, US Fuggle, Willamette	English Ale, Extra Special Bitter (ESB), Lager, Pilsner, Belgian Ale	Eslovenia

<b>Bor</b>			7.0 - 9.0%	4.0 - 6.0%	1.0 - 1.5			Republica Checa
<b>Bullion</b>	Lúpulo utilizado principalmente para amargor. Aroma intenso de groselha negra.	Amargor	6.5 - 12.9%	3.2 - 6.0%	1.1 - 2.7	Columbus, Northern Brewer; Brewer's Gold, Chinook, Eroica, Galena, Pacific Gem	Scotch Ale, Belgian Ale, French Ale, Doppelbock, Stout, Oatmeal Stout, Coffee Oatmeal Stout, India Pale Ale, Extra Special Bitter (ESB), Porter, Dark Lager, Barleywine, Imperial stout, Brown Ale, English Strong Ale, Scottish Strong Ale, English Bitter, Pale Ale, Scout	Reino Unido
<b>Calicross</b>	Sabor e aroma Floral.	Ambos	5.8 - 7.9%	4.0 - 7.8%	0.4 - 1.4			Nueva Zelanda
<b>Cascade (AR)</b>	Diferente al Cascade EE.UU., con más sabor picante e aroma a limón.	Aroma	3.0 - 5.0%			Hallertau	German Amber Lager, Weisen, Kölsch, Altbier, English Bitter, Pale Ale, European Dark Lager	Argentina
<b>Cascade (NZ)</b>	Semelhante ao Cascade, tem caráter floral, citrico, uva.	Aroma	6.0 - 8.0%	5.0 - 5.5%	0.9 - 1.4	Ahtanum, US Cascade, Centennial	American Amber e Pale Ale, Summer Ale, India Pale Ale, Barleywine, Imperial stout, Belgian Ale, French Ale, Brown Ale, Specialty Beer, Scout, Wheat	Nueva Zelanda
<b>Cascade (US)</b>	Floral, especiarias, frutas cítricas, laranja. Grande potencial de aroma e amargor equilibrado.	Ambos	4.0 - 7.0%	4.5 - 7.0%	0.7 - 1.5	Amarillo, Centennial, Columbus, Summit, Ahtanum	American Ale, Belgian Ale, French Ale, American Amber e Pale Ale, India Pale Ale, Porter, Barleywine, Imperial stout, Witbier, Pilsner, Brown Ale, Light Ale, Smoked Beer, Specialty Beer, Spice Beer, Scout	Estados Unidos
<b>Celeia (Styrian)</b>	Amargor moderado e agradável combinando com aroma floral.	Aroma	3.0 - 7.5%	2.0 - 3.3 %	0.6 - 3.6	Styrian Golding, Saaz, Stylian Bobek	English Ale, Belgian Ale, Extra Special Bitter (ESB), American Lager, European Dark Lager, European Pale Lager, German Amber Lager, Pilsner, Brown Ale, English Strong Ale, Scottish Strong Ale, Scottish Ale, English Bitter, Pale Ale, India Pale Ale, Light Ale	Eslovenia
<b>Centennial</b>	Média intensidade com notas cítricas, florais, picante.	Ambos	6.0 - 12%	3.5 - 5.0%	1.5 - 2.5	Amarillo, Challenger, Cascade, Columbus, Summit, Chinook, Green Bullet	American Amber e Pale Ale, Wheat, American Ale, Belgian Ale, French Ale, India Pale Ale, Barleywine, Imperial stout, Brown Ale, Light Ale, Porter, Smoked Beer, Specialty Beer, Spice Beer, Scout	Estados Unidos
<b>Challenger</b>	Leve a moderado, bastante especiado.	Ambos	5.0 - 9.0%	3.2 - 4.5%	1.0 - 1.7	Admiral, Cluster, Northern Brewer U.S., German Perle, U.S. Perle, Northdown, First Gold, Centennial, Target	English Brown Ale, Red Ale, English Ale, English Bitter, Pale Ale, Golden Ale, Belgian Blonde Ale, Porter, Stout, Extra Special Bitter (ESB), Barleywine, Imperial stout, Brown Ale, English Ale, Belgian Ale, French Ale, English Strong Ale, Scottish Strong Ale, Scottish Ale, India Pale Ale, Scout	Reino Unido
<b>Chelan</b>	Agradáveis notas cítricas	Amargor	12 - 14.5%	8.5 - 9.8%	1.5 - 1.9	Galena		Estados Unidos
<b>Chinook</b>	Intensidade média. Notas de especiarias, pinho, grapefruit	Amargor	10 - 15%	3.0 - 4.0%	1.5 - 2.7	Brewers Gold, Columbus, Eroica, Galena, Nugget, Northern Brewer, U.K. Target, Simcoe, CTZ	American Amber e Pale Ale, India Pale Ale, Stout, Porter, American Lager, Wheat, Barleywine, Imperial stout, Belgian Ale, French Ale, Brown Ale, Smoked Beer, Specialty Beer, Spice Beer, Scout	Estados Unidos
<b>Citra</b>	Forte aroma cítrico e frutado. Melão, Lima, groselha, maracujá e lichia	Ambos	9.0 - 13%	3.5 - 4.5%	2.2 - 2.8		American Pale Ale, India Pale Ale, Doble IPA, OPI, las cervezas fuertes estadounidenses e belgas.	Estados Unidos
<b>Cluster</b>	Floral e Especiarias	Ambos	5.5 - 9.0%	4.5 - 5.5%	0.4 - 0.8	Galena, Eroica, Willamette, Fuggle	American Amber e Pale Ale, American Lager, Ales, Stout, Barleywine, Imperial stout, Belgian Ale, French Ale, Brown Ale, India Pale Ale, Porter, Smoked Beer, Specialty Beer, Spice Beer, Scout, Wheat	Estados Unidos
<b>CTZ</b>	Picante	Amargor	14.5 - 16.5%	4.0 - 5.0%	2.0 - 3.0	Galena, Chinook, Nugget	American Ale, Stout, Lager	Estados Unidos
<b>Columbia</b>		Ambos	5.0 - 12%	3.0 - 5.5%	0.5 - 1.6	Fuggle, Willamette	English Ale	Estados Unidos
<b>Columbus (Tomahawk)</b>	Usado principalmente para amargor, é um lúpulo agradável, aromático e picante.	Ambos	11 - 18%	4.0 - 5.8%	1.5 - 3.5	Bullion, Chinook, Magnum, Millenium, Northern Brewer, Nugget, U.K. Target, Warrior, Simcoe, Tomahawk, Zeus, Centennial, Galena, CTZ, Pacific Gem	American India Pale Ale, American Amber e Pale Ale, Imperial Brown, Brown Ale, Imperial Red Ale, Stout, Barleywine, Imperial stout, Lager, Belgian Ale, French Ale, Porter, Smoked Beer, Specialty Beer, Spice Beer, Scout, Wheat	Estados Unidos
<b>Comet</b>		Amargor	9.5 - 13%	3.0 - 6.0%	1.8 - 2.0	Chinook, Galena, Eroica, Nugget, Olympic	American Ale	Estados Unidos
<b>Crystal</b>	Picante e floral.	Aroma	2.0 - 6.0%	3.5 - 6.7%	0.8 - 2.1	French Strisselspalt, Hallertauer, Hersbrucker, Liberty, Mount Hood, Tettnanger, Amarillo, Cascade, Centennial, Ultra	API, American Ale, Belgian Ale, American Lager, European Dark Lager, European Pale Lager, Kölsch, Extra Special Bitter (ESB), Pilsner, IPA, Pale Ale, Alt	Estados Unidos
<b>Delta</b>	Aroma suave e agradável que é um pouco picante, terroso e com uma pitada cítrica.	Aroma	5.5 - 7.0%	5.5 - 7.0%	0.5 - 1.1	Fuggle, Willamette	American Ale	Estados Unidos
<b>East Kent Golding</b>	Suave, aromático e agradável. Moderadamente picante. Moderadamente especiado	Ambos	4.0 - 7.0%	1.9 - 2.8%	0.4 - 1.0	U.K. Progress, U.S. Golding, Whitbread Golding Variety, Fuggle, Willamette, Sovereign, First Gold	English Ale, Stout, Porter, Lager, Belgian Ale, French Ale, Barleywine, Imperial stout, Brown Ale, English Strong Ale, Scottish Strong Ale, Scottish Ale, English Bitter, Pale Ale, India Pale Ale, Scout	Reino Unido

<b>El Dorado</b>	Notas frutadas, mais especificamente aromas de frutas tropicais Remete a laranja, uva, pêra, cereja e outros	Aroma	14 - 17%	6.5 - 7.5%	2.5 - 2.8			Estados Unidos
<b>Eroica</b>	Forte, mas com agradável aroma.	Amargor	9.0 - 15%	3.0 - 5.3%	0.8 - 1.3	Chinook, Northern Brewer, Galena, Nugget, Bullion, Brewer's gold, Glacier	American Pale Ale, India Pale Ale, Porter, Stout, Wheat	Alemania
<b>Falconer's Flight</b>	Cítrico, frutado, picante e terroso.	Ambos	9.0 - 11%				India Pale Ale	Estados Unidos
<b>Feux Coeur Francais</b>		Amargor	10 - 15%	5.5 - 7.0%				Australia
<b>First Gold</b>	Similar a família Golding, um pouco picante, mas suave.	Ambos	4.0 - 10%	2.3 - 4.1%	0.7 - 1.5	Crystal, U.K. Kent Golding, Boadicea, Northdown, Challenger, Fuggle, Galena, Northern Brewer, Perle	English Ale, Belgian Ale, French Ale, Extra Special Bitter (ESB), Barleywine, Imperial stout, Brown Ale, English Strong Ale, Scottish Strong Ale, Scottish Ale, English Bitter, Pale Ale, India Pale Ale, Porter, Scout	Reino Unido
<b>Fuggle (UK)</b>	Suave e agradável.	Ambos	3.5 - 6.0%	1.5 - 3.1%	0.7 - 1.4	Styrian Golding, U.S. Fuggle, Willamette, Newport, Progress, Sovereign, U.S. Tettnanger	Extra Special Bitter (ESB), Bitter, Lager, Lambic, English Ale, Belgian Ale, French Ale, Barleywine, Imperial stout, Brown Ale, English Strong Ale, Scottish Strong Ale, Scottish Ale, English Bitter, Pale Ale, India Pale Ale, Porter, Scout	Reino Unido
<b>Fuggle (US)</b>	Suave e agradável, com notas terrosa e frutado.	Ambos	3.5 - 5.5%	1.5 - 3.1%	0.7 - 1.2	Styrian Golding, U.K. Fuggle, U.S. Tettnanger, Willamette, Newport	American Ale, English Ale, Belgian Ale, French Ale, Lambic, Barleywine, Imperial stout, Brown Ale, English Strong Ale, Scottish Strong Ale, Scottish Ale, English Bitter, Pale Ale, India Pale Ale, Porter, Scout	Estados Unidos
<b>Galaxy</b>	Combinação de sabores cítricos e maracujá.	Ambos	11 - 14.8%	5.0 - 6.5%	2.4 - 2.7	CTZ, Chinook, Nugget, Tillicum, Citra	IPA, Doble IPA, Australian Ale	Australia
<b>Galena</b>	Com amargor agradável, frutado forte, aroma de groselha, semelhante ao Bullion.	Amargor	10 - 14%	7.2 - 9.0%	0.9 - 1.3	Brewers Gold, Chinook, Cluster, Eroica, Newport, Nugget, Pride of Ringwood, Target, CTZ, Tillicum, Columbus, Bullion	American Amber, English Bitter, Pale Ale, American Ale, English Ale, Belgian Ale, French Ale, Barleywine, Imperial stout, Brown Ale, India Pale Ale, Porter, Specialty Beer, Spice Beer, Scout	Estados Unidos
<b>Glacier</b>	Cítrico, Terroso.	Ambos	3.3 - 9.7%	5.4 - 9.7%	0.7 - 1.6	Styrian Golding, U.S. Fuggle, U.S. Tettnanger, Willamette, Magnum	American Amber, Extra Special Bitter (ESB), English Bitter, Pale Ale, English Pale Ale, Porter, Stout, India Pale Ale, Scout	Estados Unidos
<b>Golding (UK)</b>	Valorizado por seu aroma delicado (quase doce), ligeiramente picante, que produz o clássico acabamento Golding.		4.0 - 7.0%	2.0 - 3.0%	0.8 - 1.0		Belgian Ale, French Ale	Reino Unido
<b>Golding (US)</b>	Doce, agradável e suave. Típico do lúpulo inglês.	Ambos	4.0 - 6.5%	2.0 - 3.0%	0.4 - 1.0	U.K. Golding, U.K. Progress, Fuggle, Styrian Golding, East Kent Golding, Willamette	English Bitter, Pale Ale, English Pale Ale, Belgian Ale, French Ale, Barleywine, Imperial stout, American Ale, American Pale Ale, Brown Ale, English Strong Ale, Scottish Strong Ale, Scottish Ale, India Pale Ale, Porter, Specialty Beer, Spice Beer, Scout	Estados Unidos
<b>Green Bullet</b>	Aroma de pinho, limão e uvas passas.	Amargor	9.0 - 15%	2.9 - 7.5%	0.4 - 1.2	Crystal, Hallertauer Tradition, Liberty, Mount Hood, Ultra, Pride of Ringwood, Centennial	American Lager, Australian Lager, Bitter, Irish, Dry Stout, Bock, European Pale Lager, German Amber Lager, Wheat	Nueva Zelanda
<b>Greenburg</b>		Aroma	3.5 - 5.5%	6.5 - 8.5%				Estados Unidos
<b>Hallertau Aroma</b>	Com um floral distintivo e ligeiramente cítrico.	Ambos	6.5 - 11%	5.8 - 8.5%	0.9 - 1.1	Perle, Hallertauer Mittelfrüh, Hersbrucker, Tettnagger	American Lager, European Dark Lager, European Pale Lager, German Amber Lager, Pilsner, Bitter, Ale, Bock, Kölsch, Altbier, Wheat	Nueva Zelanda
<b>Hallertauer</b>	Muito suave, ligeiramente floral e ligeiramente picante.	Aroma	3.5 - 5.5%	3.5 - 5.5%	0.6 - 1.5	Hallertauer Tradition, Liberty, Mount Hood, Tettnanger, Ultra, Vanguard, German Hallertau, Hallertauer Mittelfrüh	American Lager, Pilsner, Bock, Munich Helles, Belgian Lambic, Sour Ale, Belgian Strong Ale, European Pale Lager, German Amber Lager, Kölsch, Altbier, Wheat	Estados Unidos
<b>Hallertauer Gold</b>	Conhecido por suas propriedades aromáticas semelhantes a Hallertauer.	Aroma	6.0 - 6.5%			Crystal, Mount Hood, Hallertauer Mittelfrüh	American Lager, Belgian Lambic, Sour Ale, Belgian Strong Ale, Bock, European Pale Lager, German Amber Lager, Kölsch, Altbier, Wheat	Alemania
<b>Hallertauer Merkur</b>	Aroma terroso, mas cítrico, com tons florais e picante.	Ambos	10 - 15%	3.5 - 7.0%	1.4 - 2.8	German Magnum, Taurus, German Tradition	Lager	Alemania
<b>Hallertauer Mittelfrüh</b>	Suave e agradável. Com tons florais e cítricos.	Aroma	3.0 - 5.5%	3.0 - 5.0%	0.6 - 1.3	German Tradition, Liberty, Ultra, Hersbrucker, Hallertau, Mount Hood, Crystal, Vanguard	American Lager, Pilsner, Wheat, Belgian Ale, Kölsch, Altbier, Belgian Lambic, Sour Ale, Munich Helles, Belgian Strong Ale, Bock, European Pale Lager, German Amber Lager, Fruit Beer, Light Ale, Smoked Beer	Alemania
<b>Hallertauer Tradition</b>	Média intensidade de aroma com tons florais e ervas.	Aroma	3.5 - 7.0%	3.0 - 6.0%	0.5 - 1.9	Crystal, Liberty, Hallertauer Mittelfrüh, Ultra, Hersbrucker, Mount hood	American Lager, Pilsner, Bock, Wheat, Belgian Lambic, Sour Ale, Belgian Strong Ale, European Pale Lager, German Amber Lager, Fruit Beer, Kölsch, Altbier, Light Ale, Smoked Beer	Alemania
<b>Harmonie</b>	Agradável e picante.	Aroma	4.0 - 8.0%	4.0 - 8.0%	1.0 - 2.0		Pilsner, Lager, Ale	Republica Checa

<b>Herald</b>	Combina seu poder de amargor com um caráter cítrico.	Amargor	9.0 - 13%	4.8 - 5.5%	1.0 - 1.9	Pioneer, Target	Ale, English Bitter, Pale Ale, Brown Ale, English Strong Ale, Scottish Strong Ale	Reino Unido
<b>Hercules</b>	Aroma com média intensidade picante.	Amargor	12 - 17%	4.0 - 5.5%	1.6 - 2.4		Pilsner, Lager, Ale, Stout, Alt	Alemania
<b>Hersbrucker (hallertauer)</b>	Floral e ligeiramente frutado. Floral e levemente afrutado	Aroma	1.5 - 5.5%	2.5 - 6.0%	0.5 - 1.3	French Strisslespalt, Mount Hood, Hallertauer Mittelfrüh, Liberty	American Lager, Pilsner, Bock, Wheat, Belgian Ale, Kölsch, Altbier, Munich Helles, Belgian Lambic, Sour Ale, Belgian Strong Ale, European Pale Lager, German Amber Lager, Fruit Beer, Light Ale, Smoked Beer	Alemania
<b>Hersbrucker Pure</b>		Aroma	4.7 - 6.0%	2.0 - 3.0%	0.6 - 1.2	Hersbrucker, Hallertauer Mittelfrüh	Pilsner, Wheat, Lager	Alemania
<b>Horizon</b>	Lúpulo agradável. Neutro com algumas notas florais, frutas cítricas e especiarias.	Ambos	10 - 17%	6.5 - 8.5%	1.2 - 2.6	Magnum	Belgian Ale, French Ale, American Lager, European Dark Lager, American Amber, English Bitter, Pale Ale, American India Pale Ale, Brown Ale, Barleywine, Imperial stout, Belgian Lambic, Sour Ale, Belgian Strong Ale, English Strong Ale, Scottish Strong Ale, Scottish Ale, Bock, European Pale Lager, German Amber Lager, Fruit Beer, Kölsch, Altbier, Light Ale, Porter, Smoked Beer, Specialty Beer, Spice Beer, Scout, Wheat	Estados Unidos
<b>Hüller Bitterer</b>		Ambos	4.5 - 7.0%	4.5 - 5.5%	1.0 - 1.5		Schwarzbier, Lager	Alemania
<b>Liberty</b>	Aroma limpo caráter levemente picante.	Aroma	3.0 - 6.5%	3.0 - 4.0%	0.6 - 1.9	Hallertauer, Hallertauer Tradition, Tettninger, Mount Hood, Crystal, Ultra, Hersbrucker	American Lager, Pilsner, Bock, Wheat, Kölsch, Altbier, Belgian Lambic, Sour Ale, Belgian Strong Ale, European Pale Lager, German Amber Lager, Fruit Beer, Light Ale, Smoked Beer	Estados Unidos
<b>Lublin (Lubelski)</b>	Aroma suave típico de especiarias, ervas.	Aroma	3.0 - 5.0%	2.5 - 4.0%	0.5 - 1.2	Saaz checo, Saaz USA, Tettninger USA, Sterling, Styrian Golding	European Pale Lager	Polonia
<b>Magnum Hallertauer (US)</b>	Conhecido pelo seu poder de amargor e qualidade.	Amargor	10 - 14%	4.5 - 7.0%	1.9 - 3.0	German Magnum, CTZ, Nugget, Taurus, Horizon	American Amber, English Bitter, Pale Ale, Belgian Ale, French Ale, American Lager, European Dark Lager, Barleywine, Imperial stout, Belgian Lambic, Sour Ale, Belgian Strong Ale, English Strong Ale, Scottish Strong Ale, Scottish Ale, Bock, Brown Ale, European Pale Lager, German Amber Lager, Fruit Beer, India Pale Ale, Kölsch, Altbier, Light Ale, Porter, Smoked Beer, Specialty Beer, Spice Beer, Scout, Wheat	Estados Unidos
<b>Magnum Hallertauer (GE)</b>	Forte Amargor. Notas florais leves e frutadas.	Amargor	11 - 16%	5.0 - 7.0%	1.6 - 2.6	Horizon, Newport, Northern Brewer, Pilgrim, Target, Taurus, Northdown, Columbus, Nugget, US Magnum, Galena	American Lager, European Dark Lager, Pilsner, Stout, German Ale, Belgian Ale, French Ale, Kölsch, Altbier, Barleywine, Imperial stout, Belgian Lambic, Sour Ale, Belgian Strong Ale, English Strong Ale, Scottish Strong Ale, Scottish Ale, Bock, Brown Ale, English Bitter, Pale Ale, European Pale Lager, German Amber Lager, Fruit Beer, India Pale Ale, Light Ale, Porter, Smoked Beer, Specialty Beer, Spice Beer, Scout, Wheat	Alemania
<b>Marynka</b>	Nova variedade de lúpulo com aroma intenso.	Ambos	7.0 - 12%	10.2 - 13%	1.6 - 2.2	Northern Brewer, Tettninger, Perle, Chinook, English Golding	European Dark Lager, Wheat, Ale, European Pale Lager	Polonia
<b>Millenium</b>	Suave e herbal, como Nugget.	Amargor	12 - 16.5%	4.3 - 5.3%	1.8 - 2.2	Nugget, Columbus, CTZ, Summit	American Lager, American Ale, Stout, Barley wine, European Pale Lager	Estados Unidos
<b>Motueka</b>	Lúpulo com aroma fresco de limão e frutas tropicais.	Aroma	5.0 - 7.5%	5.0 - 5.5%	0.7 - 0.9	Czech Saaz, U.S. Saaz, Sterling	Belgian Ale, English Ale, Pilsner, European Dark Lager, Bock, European Pale Lager, German Amber Lager	Nueva Zelanda
<b>Mount Hood</b>	Agradável e suave, com um pouco de notas picante e resinosas.	Aroma	3.0 - 8.0%	4.0 - 8.0%	1.0 - 1.7	Crystal, French Strisslespalt, Hersbrucker, Hallertauer, Tettninger, Liberty, Hallertauer Mittelfrüh, Ultra	American Lager, European Lager, Pilsner, Bock, Wheat, Kölsch, Altbier, Helles Munich, Belgian Lambic, Sour Ale, Belgian Strong Ale, European Pale Lager, German Amber Lager, Fruit Beer, Light Ale, Smoked Beer	Estados Unidos
<b>Mount Rainier</b>	Nobre aroma floral e cítrico.	Ambos	5.0 - 8.1%	5.0 - 7.0%	0.2 - 0.5	Hallertauer, Fuggle	American Ale, Lager, Porter	Estados Unidos
<b>Nelson Sauvin</b>	Lúpulo único, com sabor e aroma frutado, groselha, maracujá, cítrico.	Ambos	11 - 14%	6.0 - 8.0%	1.0 - 1.2		Belgian Ale, French Ale, Premium Lager, American Ambe, English Bitter, Pale Ale, Barleywine, Imperial stout, India Pale Ale, Porter, Scout	Nueva Zelanda
<b>Newport</b>	Suave e bastante picante.	Amargor	13 - 17%	7.2 - 9.1%	1.6 - 3.6	Galena, Nugget, Fuggle, Magnum, Brewer's Gold	American Lager, American Amber, English Bitter, Pale Ale, Belgian Ale, French Ale, Stout, Barleywine, Imperial stout, Brown Ale, India Pale Ale, Porter, Specialty Beer, Spice Beer, Scout	Estados Unidos
<b>Northdown</b>	Frutado com um sabor picante.	Ambos	6.0 - 10%	3.6 - 6.2%	1.2 - 2.5	Admiral, Challenger, Northern Brewer, Perle (GR), Galena, Magnum	Belgian Ale, French Ale, Porter, English Strong Ale, Scottish Strong Ale, Scottish Ale, Dry Stout, Barleywine, Imperial stout, Brown Ale, English Bitter, Pale Ale, India Pale Ale, Porter, Scout	Reino Unido

<b>Northern Brewer Hallertau (GE)</b>	Notas de especiarias.	Ambos	6.0 - 10%	3.0 - 5.0%	1.0 - 2.1	Chinook, U.S. Northern Brewer, Nugget, Columbus, Bullion, Perle, Styrian Aurora, Northdown, Challenger, CTZ, Galena, Magnum, German Brewers Gold	American Amber, English Bitter, Pale Ale, Extra Special Bitter (ESB), English Pale Ale, Belgian Ale, French Ale, Porter, Lager, Lambic, Helles Munich, Barleywine, Imperial stout, Brown Ale, English Strong Ale, Scottish Strong Ale, Scottish Ale, India Pale Ale, Kölsch, Altbier, Light Ale, Smoked Beer, Scout, Wheat	Alemania
<b>Northern Brewer Hallertau (US)</b>	Notas de especiarias.	Amargor	6.0 - 10%	3.0 - 5.0%	1.5 - 2.0	Chinook, Nugget, German Northern Brewer, Galena, Magnum, CTZ, Perle	American Amber, English Bitter, Pale Ale, Porter, Belgian Ale, French Ale, Kölsch, Munich Helles, Barleywine, Imperial stout, Brown Ale, English Strong Ale, Scottish Strong Ale, Scottish Ale, India Pale Ale, Light Ale, Smoked Beer, Scout, Wheat	Estados Unidos
<b>Northwest Golding</b>	Conhecido por suas leves propriedades aromáticas.		4.0 - 5.5%			East Kent Golding	American Amber, English Bitter, Pale Ale, Belgian Ale, French Ale, Porter, Stout, ESB, Barleywine, Imperial stout, Brown Ale, English Strong Ale, Scottish Strong Ale, Scottish Ale, India Pale Ale, Light Ale, Smoked Beer, Scout, Wheat	Reino Unido
<b>Nugget (US)</b>	Agradáveis notas de herbal, doce.	Ambos	9.5 - 15%	3.0 - 6.0%	1.5 - 3.0	Galena, CTZ, Magnum, Columbus, Tomahawk, Zeus, Target, Northern Brewer, Perle, Olympic	American Amber e Pale Ale, American Ale, Belgian Ale, French Ale, Stout, Lager, Barleywine, Imperial stout, Saison, Brown Ale, India Pale Ale, Porter, Smoked Beer, Specialty Beer, Spice Beer, Scout, Wheat	Estados Unidos
<b>Nugget (GE)</b>	Agradáveis notas de herbal, doce.	Ambos	9.0 - 13.5%	3.0 - 5.8%	0.9 - 1.3	Chinook, Cluster, Columbus, Galena, U.K. Target, Brewers Gold, Warrior, Eroica, Millenium, Magnum, Northern Brewer,	Light lager, Barleywine, Imperial stout, Belgian Ale, French Ale, Brown Ale, India Pale Ale, Porter, Smoked Beer, Specialty Beer, Spice Beer, Scout, Wheat	Alemania
<b>Olympic</b>	Aroma de suave a médio com notas cítricas e picante.	Amargor	10 - 13%	3.8 - 6.1%	0.9 - 2.6	Chinook, Brewer's Gold	American Lager, American Amber e Pale Ale, Barleywine, Imperial stout, Belgian Ale, French Ale, Bock Brown Ale, India Pale Ale, Porter, Smoked Beer, Specialty Beer, Spice Beer, Scout, Wheat	Estados Unidos
<b>Omega</b>		Amargor	9.0 - 11%					Reino Unido
<b>Opal</b>	Notas frutadas, floral, cítricas e de ervas.	Ambos	5.0 - 14%	3.5 - 5.5%	0.8 - 1.3	East Kent Golding, Styrian Golding, Tettnanger	Wheat, Helles, Lager ligh, Ale ligh, Saison, Belgian Ale, Summer Ale, European Dark Lager, European Pale Lager, German Amber Lager, Kölsch, Altbier, Spice Beer	Alemania
<b>Orion</b>		Ambos	8.0 - 9.0%	5.0 - 5.8%	1.8 - 2.1	Perle, Northern Brewer	Hell, Dunkel	Alemania
<b>Outeniqua</b>		Amargor	12 - 13.5%	4.1 - 5.1%	1.6 - 1.6	Southern Star	Pilsner, Stout, Brown Ale	South Africa
<b>Pacific Gem</b>	Lúpulo com forte poder de amargor e notas de groselha e madeira.	Ambos	13 - 16%	7.0 - 9.0%	1.2 - 1.4	Cluster, Columbus, Tomahawk, Zeus, Pacific Jade, Pacific Sunrise, Galena, Magnum, Millenium, Nugget, Columbus	Lager, American Ale, Belgian Ale, French Ale, American Amber, English Bitter, Pale Ale, Dry Stout, Barleywine, Imperial stout, India Pale Ale, Porter, Scout	Nueva Zelanda
<b>Pacific Jade</b>	Amargor "suave" e com aromas cítricos e de especiarias.	Ambos	12 - 14%	7.0 - 8.0%	0.8 - 0.8		American Amber e Pale Ale, Belgian Ale, French Ale, American Lager, Barleywine, Imperial stout, Brown Ale, European Pale Lager, India Pale Ale, Kölsch, Altbier, Porter, Scout, Wheat	Nueva Zelanda
<b>Pacific Sunrise</b>	Notas de madeira e pinho.	Amargor	12.5 - 14.5%	6.0 - 6.5%	1.7 - 2	Pacific Gem	Lager, Black Lager, Rye Ale, American Lager, American Pale Ale, Red Ale, Stout, Porter, Barley wine	Nueva Zelanda
<b>Pacifica (hallertau)</b>	Lúpulo com um aroma cítrico e caráter floral.	Aroma	5.0 - 6.0%	5.5 - 6.5	0.9 - 1.2	Hallertauer Mittelfrüh, Hersbrucker	Pale Ale, European Dark Lager, Bock, Porter, Stout, European Pale Lager, German Amber Lager, Kölsch, Altbier, Wheat	Nueva Zelanda
<b>Palisade</b>	Algumas características americanas. Floral, frutado e terroso.	Aroma	5.5 - 9.5%	6.0 - 8.0%	1.4 - 1.6	Cascade, Willamette, Styrian Golding, Tettnanger	American Amber e Pale Ale, American Ale, English Ale, Belgian Ale, French Ale, English Pale Ale, Barleywine, Imperial stout, Brown Ale, India Pale Ale, Light Ale, Porter, Smoked Beer, Specialty Beer, Spice Beer, Scout	Estados Unidos
<b>Perle (GE)</b>	Floral, frutado e ligeiramente picante.	Ambos	4.0 - 10%	2.5 - 5.5%	0.8 - 1.3	Northdown, First Gold, Challenger, Northern Brewer, U.S. Perle, Hallertauer Mittelfrüh, Hallertau Aroma	American Amber, English Bitter, Pale Ale, Porter, Stout, German Amber Lager, European Dark Lager, Pilsner, Wheat, Belgian Ale, French Ale, Kölsch, Altbier, Munich Helles, Barleywine, Imperial stout, Belgian Lambic, Sour Ale, Belgian Strong Ale, Bock, Brown Ale, European Pale Lager, Fruit Beer, India Pale Ale, Light Ale, Smoked Beer, Spice Beer, Scout	Alemania
<b>Perle (US)</b>	Conhecido por suas propriedades aromáticas e de amargor, possui notas florais e levemente picantes.	Ambos	6.0 - 11%	3.0 - 5.0%	0.7 - 1.2	Chinook, Cluster, Galena, Northern Brewer, German Perle,	American Amber e Pale Ale, Porter, Stout, German Amber Lager, European Dark Lager, Pilsner, Wheat, Belgian Ale, French Ale, Kölsch, Altbier, Barleywine, Imperial stout, Belgian Lambic, Sour Ale, Belgian Strong Ale, Bock, Brown Ale, European Pale Lager, Fruit Beer, India Pale Ale, Light Ale, Smoked Beer, Spice Beer, Scout	Estados Unidos
<b>Phoenix</b>	Fresco e agradável. Semelhante ao U. K. Challenger.	Ambos	7.0 - 15%	3.3 - 5.5%	1.2 - 3.0	U.K. Challenger, U.K. Kent Golding, U.K. Northdown	English Ale, Belgian Ale, French Ale, Barleywine, Imperial stout, Brown Ale, English Strong Ale, Scottish Strong Ale, Scottish Ale, English Bitter, Pale Ale, India Pale Ale, Porter, Scout	Reino Unido
<b>Pilgrim (P38)</b>	Forte e com agráveis notas de limão.	Ambos	9.0 - 13%	4.2 - 5.2%	1.2 - 2.4	Target, Admiral, Challenger	Bitter, ESB Pale Ale, Stout, Porter.	Reino Unido

<b>Pilot</b>	Leves notas florais, limão	Amargor	8.0 - 12%	2.0 - 3.0%			Bitter, APA	Reino Unido
<b>Pioneer</b>	Muito suave, de sabor típico Inglês. Sabor incomum com notas de limão e acompanhado por um aroma agradavelmente cítrico.	Ambos	7.0 - 11%	3.5 - 4.0%	0.8 - 1.8	U.K. Kent Golding, Brewer's Gold,	English Ale, Belgian Ale, French Ale, Extra Special Bitter (ESB), Barleywine, Imperial stout, Brown Ale, English Strong Ale, Scottish Strong Ale, Scottish Ale, English Bitter, Pale Ale, India Pale Ale, Porter, Scout	Reino Unido
<b>Premiant</b>	Suave e agradável. Sabor ligeiramente picante.	Amargor	7.0 - 9.0%	3.0 - 6.0%	1.0 - 2.0	Saaz	European Pale Lager, Ale, Stout, Porter, Wheat	Republica Checa
<b>Pride of Kent</b>		Ambos	8.0 - 11%	6.0 - 8.0%	1.6 - 2.5			Reino Unido
<b>Pride of Ringwood</b>	Madeira, terroso e ervas.	Ambos	7.0 - 10.5%	4.0 - 6.0%	0.9 - 2.0	Cluster, Galena, Kent Goldings, Centennial	American Amber, English Bitter, Pale Ale, Australian Lager, Barleywine, Imperial stout, Belgian Ale, French Ale, India Pale Ale, Porter, Scout	Australia
<b>Progress</b>	Moderadamente forte e com bom aroma.	Ambos	4.0 - 7.5%	2.0 - 2.8%	0.6 - 1.2	Fuggle, U.K. Kent Golding, Whitbread Goldings Variety	English Ale, Belgian Ale, French Ale, English Bitter, Pale Ale, Extra Special Bitter (ESB), Porter, Barleywine, Imperial stout, Brown Ale, English Strong Ale, Scottish Strong Ale, Scottish Ale, India Pale Ale, Scout	Reino Unido
<b>Revolution</b>	Picante, pinho e com algumas notas cítricas.	Aroma	4.0 - 6.0%				American Ale, German Lager	Estados Unidos
<b>Riwaka</b>	Aroma cítrico.	Aroma	4.5 - 6.5%	4.0 - 5.0%	0.8 - 1.5	Czech Saaz, Sterling	American Amber e Pale Ale, Pilsner, India Pale Ale	Nueva Zelanda
<b>Rubin</b>		Amargor	10 - 14%	4.0 - 6.0%	1.0 - 2.0			Republica Checa
<b>Saaz (CH)</b>	Muito suave e com notas levemente picantes.	Aroma	2.8 - 5.0%	3.3 - 7.0%	0.4 - 0.8	U.S. Saaz, Sladek, Lublin, Sterling, Ultra, Vangaurd, Tettninger, Lubelski	Pilsner, American Lager, European Dark Lager, Belgian Ale, Belgian Lambic, Sour Ale, Bitter, Belgian Strong Ale, Bock, European Pale Lager, German Amber Lager, Fruit Beer, Kölsch, Altbier, Light Ale, Smoked Beer, Wheat	Republica Checa
<b>Saaz (US)</b>	Suave e agradável, com notas terrosa e picante.	Aroma	3.0 - 6.0%	3.0 - 4.5%	0.5 - 1.0	Czech Saaz, Polish Lublin, Tettninger, Ultra, Sterling	Pilsner, American Lager, European Dark Lager, Wheat, Belgian Ale, Belgian Lambic, Sour Ale, Belgian Strong Ale, Bock, European Pale Lager, German Amber Lager, Fruit Beer, Kölsch, Altbier, Light Ale, Smoked Beer	Estados Unidos
<b>Santiam</b>	Notas florais e ligeiramente picante.	Aroma	4.8 - 8.4%	5.3 - 8.5%	1.2 - 2.3	German Spalt, German Spalt Select, German Tettninger, Liberty, Hallertau	American Lager, European Dark Lager, American Amber e Pale Ale, American Ale, Pilsner, Belgian Tripel, Kölsch, Altbier, Bock, Munich Helles, Belgian Lambic, Sour Ale, Belgian Strong Ale, Brown Ale, European Pale Lager, German Amber Lager, Fruit Beer, Light Ale, Porter, Smoked Beer, Scout, Wheat	Estados Unidos
<b>Saphir (Sapphire)</b>	Aroma suave, com notas florais e frutado.	Aroma	2.0 - 5.0%	4.0 - 7.0%	0.8 - 1.5	Hallertauer Mittelfrüh	Pilsner, American Lager, European Dark Lager, Belgian Ale, Belgian Lambic, Sour Ale, Belgian Strong Ale, Bock, European Pale Lager, German Amber Lager, Fruit Beer, Kölsch, Altbier, Light Ale, Smoked Beer, Wheat	Alemania
<b>Satus</b>	Conhecido pelo seu amargor e propriedades aromáticas.	Amargor	12.5 - 14%	8.5 - 9.0%	1.5 - 2.8	Galena, Nugget, Pride of Ringwood, Chinook	American Amber, English Bitter, Pale Ale, Barleywine, Imperial stout, Belgian Ale, French Ale, Brown Ale, India Pale Ale, Porter, Specialty Beer, Spice Beer, Scout	Estados Unidos
<b>Savinjski Golding</b>	Aroma suave e sabor nobre.		2.8 - 5.5%			Saaz, Fuggle, Tettninger	Ale, Lager, Pilsen, IPA	Eslovenia
<b>Select</b>	Nobre aroma.	Aroma	3.0 - 6.5%	2.5 - 5.0%	0.6 - 0.9	Czech Saaz, German Spalt, Tettninger	Bock, European Dark Lager, European Pale Lager, German Amber Lager	Alemania
<b>Simcoe</b>	Aroma único de pinho.	Ambos	12 - 14%	4.0 - 5.0%	2.0 - 2.5	Columbus, Summit, Magnum, Amarillo	American Ale, Belgian Ale, French Ale, American Amber e Pale Ale, India Pale Ale, Doble India Pale Ale, Barleywine, Imperial stout, Brown Ale, Light Ale, Porter, Smoked Beer, Specialty Beer, Spice Beer, Scout, Wheat	Estados Unidos
<b>Sladek</b>	Cítrico, Fruta verde, Fruta doce e frutas vermelhas.	Aroma	5.0 - 7.0%	6.0 - 9.0%	1.5 - 2.0	Czech Saaz, U.S. Saaz, U.S. Tettninger, Lublin	American Lager, European Dark Lager, Ale, Stout, Bock, European Pale Lager, German Amber Lager, Kölsch, Altbier, Wheat	Republica Checa
<b>Smaragd</b>	Frutado predominante e com notas florais.	Aroma	4.0 - 6.0%	3.5 - 5.5%	0.4 - 1.7		Ale, Alt, Kölsch	Alemania
<b>Sorachi Ace</b>	Lúpulo de amargor com aromas que lembram limão siciliano, raspas de casca de limão e coentro	Aroma	10 - 16%	6.0 - 7.0%	1.2 - 2.8		American Lager, German Amber Lager, Belgian Wit, India Pale Ale, American Amber e Pale Ale, Belgian Saison, Asian Lager, Brown Ale, English Strong Ale, Scottish Strong Ale, Fruit Beer, Light Ale, Specialty Beer, Spice Beer, Wheat	Japón

<b>Southern Brewer</b>		Amargor	5.6 - 12%	2.8 - 5.0%	0.4 - 1.5	Southern Promise	Pilsner, Pale Ale	South Africa
<b>Southern Cross</b>	Pinho, com amargor resinoso.	Ambos	11 - 14%	5.0 - 6.0%	0.5 - 1.2	Northern Brewer, Chinook	American Lager, European Dark Lager, Lager light, Barleywine, Imperial stout, Belgian Ale, French Ale, Brown Ale, English Strong Ale, Scottish Strong Ale, European Pale Lager, German Amber Lager, India Pale Ale, Kölsch, Altbier, Porter, Scout	Nueva Zelanda
<b>Southern Promise</b>		Ambos	9.5 - 11.5%	3.6 - 5.4%	0.7 - 0.7	Southern Brewer	Lager, Pale Ale, Strong Ale, Pilsner,	South Africa
<b>Southern Star</b>	Picante.	Amargor	12 - 14%	4.8 - 5.2%	1.6 - 1.6	Outeniqua	Lager, Pale Ale, Indian Pale Ale, Stout, Barley wine	South Africa
<b>Sovereign</b>		Aroma	4.0 - 7.0%			Fuggles	Estilos ingleses	Reino Unido
<b>Spalt</b>	Suave e agradável, com notas frutadas, florais e ligeiramente picante.	Aroma	2.5 - 5.5%	3.0 - 5.0%	0.5 - 1.1	German Spalt Select, U.S. Saaz, Santiam, Liberty, Tettninger, Hallertau	American Lager, European Dark Lager, Pilsner, Bock, Kölsch, Altbier, Munich Helles, Belgian Lambic, Sour Ale, Belgian Strong Ale, European Pale Lager, German Amber Lager, Fruit Beer, Light Ale, Smoked Beer, Wheat	Alemania
<b>Spalt Select (GE)</b>	Aroma muito bom, com frutadas e tons florais	Aroma	3.0 - 6.5%	2.5 - 6.2%	0.5 - 1.2	German Spalt, U.S. Saaz, U.S. Tettninger, German Tettninger, Hersbrucker, Hallertauer Mittelfruh	American Lager, European Dark Lager, Kölsch, Altbier, Belgian Lambic, Sour Ale, Belgian Strong Ale, Bock, European Pale Lager, German Amber Lager, Fruit Beer, Light Ale, Smoked Beer, Wheat	Alemania
<b>Spalt Select (US)</b>	Intensidade média e agradável.		3.0 - 6.5%	2.5 - 5.0%	0.6 - 0.9	German Spalt, U.S. Saaz, U.S. Tettninger, Hersbrucker	American Lager, European Dark Lager, Belgian Lambic, Sour Ale, Belgian Strong Ale, Bock, European Pale Lager, German Amber Lager, Fruit Beer, Kölsch, Altbier, Light Ale, Smoked Beer, Wheat	Estados Unidos
<b>Spalt Spalter</b>		Aroma	2.5 - 6.0%	3.0 - 5.0%	0.5 - 0.9	Tettninger, Saaz Saazer, Hallertau Hallertauer Mittelfruh, Saaz (Czech)	Lager	Alemania
<b>Sterling</b>	Ervas, picante, com aroma floral e cítrico.	Aroma	4.5 - 9.0%	4.0 - 6.0%	0.6 - 1.9	Saaz, Lubin, Mount Hood	American Ale, American Lager, European Dark Lager, Pilsner, Belgian Ale, Belgian Lambic, Sour Ale, Belgian Strong Ale, Bock, European Pale Lager, German Amber Lager, Fruit Beer, Kölsch, Altbier, Light Ale, Smoked Beer, Wheat	Estados Unidos
<b>Sticklebract</b>		Ambos	10 - 15%	7.5 - 8.5%	1.1 - 2.0	Northern Brewer		Nueva Zelanda
<b>Strisselspalt</b>	Intensidade média e agradável, ligeiramente picante.	Aroma	3.0 - 6.0%	3.0 - 6.0%	0.6 - 0.9	Crystal, Hallertauer, Hersbrucker, Mount Hood, Fuggle, Willamette	Pilsner, American Lager, European Dark Lager, Belgian Ale, Saison, Biere de Garde, Belgian Lambic, Sour Ale, Belgian Strong Ale, Bock, European Pale Lager, German Amber Lager, Fruit Beer, Kölsch, Altbier, Light Ale, Smoked Beer, Wheat	Francia
<b>Styrian Golding</b>	Notas cítricas, florais, ervas, especiarias.	Aroma	2.8 - 6.0%	1.8 - 4.1 %	0.3 - 1.7	U.K. Fuggle, U.S. Fuggle, Willamette, Tradition, Select Spalt, Styrian Bobek	English Ale, Extra Special Bitter (ESB), American Lager, European Dark Lager, Pilsner, Belgian Ale, Brown Ale, English Strong Ale, Scottish Strong Ale, Scottish Ale, English Bitter, Pale Ale, European Pale Lager, India Pale Ale, Porter, Scout	Eslovenia
<b>Summit</b>	Características picantes, terrosa, frutas cítricas e toranja	Amargor	16 - 20%	3.3 - 6.0%	1.3 - 2.5	Amarillo, Cascade, Simcoe, Columbus, CTZ, Warrior, Millennium, Tomahawk, Zeus	India Pale Ale, Imperial India Pale Ale, American Amber e Pale Ale, Barleywine, Imperial stout, Belgian Ale, French Ale, Brown Ale, Porter, Scout	Estados Unidos
<b>Sun</b>	Alto teor de alfa ácido.	Amargor	12 - 16%	4.5 - 7.0%	2.5 - 5.0	Magnum or a high-alpha hop	American Amber e Pale Ale, Barleywine, Imperial stout, Belgian Ale, French Ale, Brown Ale, India Pale Ale, Porter, Scout	Estados Unidos
<b>Super Alpha</b>	Muito indicado para amargor, com notas terrosa e pinho.	Ambos	10 - 12%	7.0 - 8.5%	1.3 - 1.6	Green Bullet	American Lager, American Amber e Pale Ale, Barleywine, Imperial stout, Belgian Ale, French Ale, Bock, Brown Ale, English Strong Ale, Scottish Strong Ale, India Pale Ale, Kölsch, Altbier, Porter, Scout	Nueva Zelanda
<b>Super Galena</b>	Aroma e amargor agradável. Notas cítricas.	Ambos	13 - 16%	8.0 - 10%	1.5 - 2.5	Galena		Estados Unidos
<b>Super Pride</b>	Forte, mas agradável.	Amargor	13.5 - 15%	5.0 - 8.0%	2.0 - 2.6	Pride of Ringwood	American Amber, English Bitter, Pale Ale, English Strong Ale, Scottish Strong Ale, India Pale Ale	Australia
<b>Swiss Tettninger</b>		Aroma				Tettngang Tettninger, Fuggle, Czech Saaz, Spalt Spalter, Ultra	Lager, Wheat	Suíza
<b>Tardif de Bourgogne</b>	Aroma associado a cervejas europeias.	Aroma	3.1 - 5.5%	3.1 - 5.5%	0.5 - 0.8			Francia

<b>Target</b>	Aroma agradável e intenso.	Ambos	8.0 - 13%	4.3 - 5.7%	1.2 - 2.6	Admiral, Fuggle, Nugget, Willamette, Pilgrim, Magnum, Northdown, Progress	American Amber, English Bitter, Pale Ale, English Ale, Belgian Ale, French Ale, American Lager, European Dark Lager, Barleywine, Imperial stout, Belgian Lambic, Sour Ale, Belgian Strong Ale, English Strong Ale, Scottish Strong Ale, Scottish Ale, Bock, Brown Ale, European Pale Lager, German Amber Lager, Fruit Beer, India Pale Ale, Kölsch, Altbier, Light Ale, Porter, Smoked Beer, Specialty Beer, Spice Beer, Scout, Wheat, American Stout	Reino Unido
<b>Taurus (Hallertauer)</b>	Nobre qualidade de aroma e amargor.	Amargor	12 - 17%	4.0 - 6.0%	0.9 - 1.4	Magnum, Citra, German Tradition	German Ale, Lager	Alemania
<b>Tettnanger (GE)</b>	Suave e agradável, ligeiramente picante e herbal.	Aroma	2.5 - 6.0%	3.0 - 5.0%	0.5 - 0.9	German Spalt, German Spalt Select, Saaz, U.S. Tettnanger, Hallertau, Liberty, Fuggle, Santiam, Hersbrucker, Ultra	American Lager, European Dark Lager, Ale, Pilsner, Wheat, Belgian Lambic, Sour Ale, Kölsch, Altbier, Munich Helles, Belgian Ale, Belgian Strong Ale, Bock, European Pale Lager, German Amber Lager, Fruit Beer, Light Ale, Smoked Beer	Alemania
<b>Tettnanger (US)</b>	Suave e ligeiramente picante.	Aroma	3.4 - 5.2%	3.0 - 4.5%	0.4 - 0.8	Czech Saaz, German Spalt, Spalt Select, Santiam, German Tettnanger, Lublin, Ultra, Fuggle	Pilsner, American Lager, European Dark Lager, Wheat, American Ale, Belgian Lambic, Sour Ale, Belgian Strong Ale, Bock, European Pale Lager, German Amber Lager, Fruit Beer, Kölsch, Altbier, Light Ale, Smoked Beer	Estados Unidos
<b>Tillicum</b>		Amargor	12 - 14.5%	9.3 - 10.5%	1.5 - 1.9	Galena, Chelan		Estados Unidos
<b>Tomahawk (Columbus)</b>	Agradável e picante	Amargor	14 - 16.5%	4.0 - 5.8%	2.0 - 3.5	Columbus, Nugget, Galena, Chinook, CTZ	American Amber e Pale Ale, Belgian Ale, French Ale, Barleywine, Imperial stout, Brown Ale, India Pale Ale, Porter, Smoked Beer, Specialty Beer, Spice Beer, Scout, Wheat	Estados Unidos
<b>Topaz</b>	Frutado forte e agradável.	Aroma	15 - 18%	6.0 - 7.0%	0.8 - 1.7			Australia
<b>Ultra</b>	Suave, com notas florais e picante, semelhante ao Saaz	Aroma	2.0 - 5.0%	3.0 - 4.7%	0.5 - 1.2	Hallertauer Tradition, Liberty, Saaz, Mount Hood, Crystal, Tettnanger, Hallertau	Bohemian Pilsen, American Lager, European Lager, Belgian Lambic, Sour Ale, Belgian Strong Ale, Bock, European Pale Lager, German Amber Lager, Fruit Beer, Kölsch, Altbier, Light Ale, Smoked Beer, Wheat	Estados Unidos
<b>Vanguard</b>	Semelhante ao Hallertau Mittelfrueh.	Aroma	4.0 - 7.0%	5.0 - 7.5%	0.8 - 1.2	Hallertauer Mittelfrueh, Saaz, Hersbrucker, Mount Hood, Liberty, Tettnanger	American Lager, Pilsner, Bock, Kölsch, Altbier, Wheat, Helles Munich, Belgian Ale, Belgian Lambic, Sour Ale, Belgian Strong Ale, European Pale Lager, German Amber Lager, Fruit Beer, Light Ale, Smoked Beer	Estados Unidos
<b>Victoria</b>	Aroma frutado, misturado a madeira, ervas e tons picantes.	Ambos	11 - 15%	5.8 - 7.5%	1.2 - 2.6	Galaxy	Pale Ale, Indian Pale Ale, Stout, Porter, Red Ale, Barley wine, Imperial India Pale Ale, Extra Pale Ale, Golden Ale	Australia
<b>Warrior</b>	Muy suave	Amargor	14.5 - 18%	4.3 - 5.5%	1.0 - 2.0	Nugget, Columbus, Magnum, Summit, Galena	American Amber e Pale Ale, India Pale Ale, Barleywine, Imperial stout, Belgian Ale, French Ale, Brown Ale, Porter, Smoked Beer, Specialty Beer, Spice Beer, Scout, Wheat	Estados Unidos
<b>WGV (Whitbread Golding Variety)</b>	Intensidade moderada e notas frutadas.	Ambos	5.0 - 8.0%	2.0 - 3.3%	0.8 - 1.4	U.K. Kent Golding, U.K. Progress, Sovereign, Challenger, Fuggle (British), Styrian Goldings	English Ale, Belgian Ale, French Ale, English Bitter, Pale Ale, Wheat, Barleywine, Imperial stout, Brown Ale, English Strong Ale, Scottish Strong Ale, Scottish Ale, India Pale Ale, Porter, Scout	Reino Unido
<b>Whitbread Golding</b>	Ligeiramente picante.	Aroma	5.0 - 7.0%			Fuggle	English Ale	Reino Unido
<b>Willamette</b>	Ligeiramente picante, frutado e floral.	Aroma	3.0 - 7.0%	3.0 - 4.5%	1.0 - 1.5	Styrian Golding, U.S. Fuggle, U.S. Tettnanger, Target, Glacier, Bramling Cross	English Ale, Belgian Ale, French Ale, American Amber, English Bitter, Pale Ale, Brown Ale, Lager, Barleywine, Imperial stout, English Strong Ale, Scottish Strong Ale, India Pale Ale, Porter, Smoked Beer, Specialty Beer, Spice Beer, Scout, Wheat	Estados Unidos
<b>Yakima Cluster</b>		Amargor	5.5 - 8.5%	4.5 - 5.5%	0.4 - 0.8	Chinook	American Amber e Pale Ale, Barleywine, Imperial stout, Belgian Ale, French Ale, Brown Ale, India Pale Ale, Porter, Smoked Beer, Specialty Beer, Spice Beer, Scout, Wheat	Estados Unidos
<b>Yeoman</b>		Amargor	12 - 16%	4.0 - 6.0%	1.5 - 2.5	Northdown, Target, Admiral, Phoenix	English Ale, Continental Lager	Reino Unido
<b>Zenith</b>		Amargor	9.0 - 10%					Reino Unido
<b>Zeus</b>	Agradável com notas terreas, cítricas e picantes.	Amargor	12 - 18%	4.0 - 6.5%	1.0 - 2.5	Columbus, Nugget, Galena, Chinook, CTZ	American Amber e Pale Ale, Barleywine, Imperial stout, Belgian Ale, French Ale, Brown Ale, India Pale Ale, Porter, Smoked Beer, Specialty Beer, Spice Beer, Scout, Wheat	Estados Unidos