Chelan
U.S.
High Alpha Hop

Chelan is a high alpha acids variety with a very high percentage of beta acids. The variety was developed through the John I. Haas, Inc., breeding program and released in 1994. It is a daughter of Galena and has analytical data similar to Galena. Cone yields and percentages of alpha acids are higher than for Galena.

<table>
<thead>
<tr>
<th>Pedigree</th>
<th>Daughter of Galena</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td>Floral and citrus</td>
</tr>
<tr>
<td>Alpha Acids*</td>
<td>12.0 - 14.5 %</td>
</tr>
<tr>
<td>Beta Acids</td>
<td>8.5 - 9.8 %</td>
</tr>
<tr>
<td>Cohumulone</td>
<td>33 - 35 % of alpha acids</td>
</tr>
<tr>
<td>Total Oil</td>
<td>1.5 - 1.9 ml/100g</td>
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<tr>
<td>Myrcene</td>
<td>45 - 55 % of total oil</td>
</tr>
<tr>
<td>Humulene</td>
<td>12 - 15 % of total oil</td>
</tr>
<tr>
<td>Caryophyllene</td>
<td>9 - 12 % of total oil</td>
</tr>
<tr>
<td>Farnesene</td>
<td>&lt; 1 % of total oil</td>
</tr>
<tr>
<td>Storage Stability</td>
<td>Excellent</td>
</tr>
</tbody>
</table>

* Alpha acids are determined by conductometric titration (EBC 7.4) in Europe; by spectrophotometric (ASBC Hops-6) in USA. Copyright © 2014 John I. Haas, Inc.