BECLEITURKUNDE

Alegenteill obt Groed der Verordnung (EWG) Nr. 1695.74 vom 26.77 1974. Gelindert durch Verordnung (EVG) Nr. 1170/77 vom 17. 5.1977.

DEUTSCHER JEGELHOPFEN





NH HALLEN/BALLOT

EWIGHT INSKO (BRUTTO

Aufbereite

Stedelinetate?/Autalcht

alanat.



Spalter *Characteristics*

Very fine aroma variety

- average bitter value
- very good aroma
- average storage stability

Polyphenols

colupulone

alpha-acids

beta-acids cohumulone

Bitter substances

total content	5.0 – 6.0 % *
xanthohumol	ca.0.3 % *

2.5 - 5.5 % *

3.0 - 5.0 % *

22 - 29 % [×]

40 - 45 % [×]

Aroma substances

total oil	0.5 - 0.9 % •
myrcene	20 – 35 % [×]
linalool	0.5 - 0.8 % ×
beta-caryophyllene	8 – 13 % [×]
aromadendrene	< 0.2 % [×]
humulene	20 – 30 % [×]
farnesene	12 – 18 % [×]
beta-selinene	0.5 $-$ 1.0 % $^{\times}$
alpha-selinene	0.5 – 1.0 % [×]

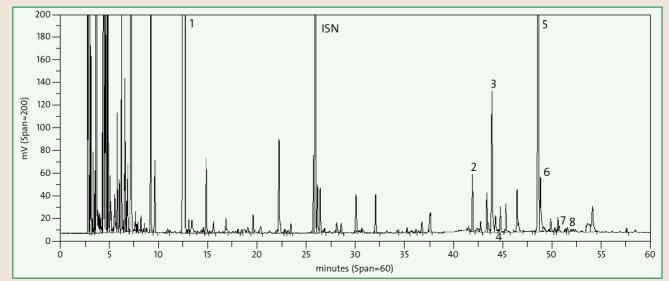
Resistance to disease:

• wilt	good to very good
downy mildew	average to low
 powdery mildew 	average to good

Ripening time	early
Storage stability	average
Average yield	1,200 kg/ha

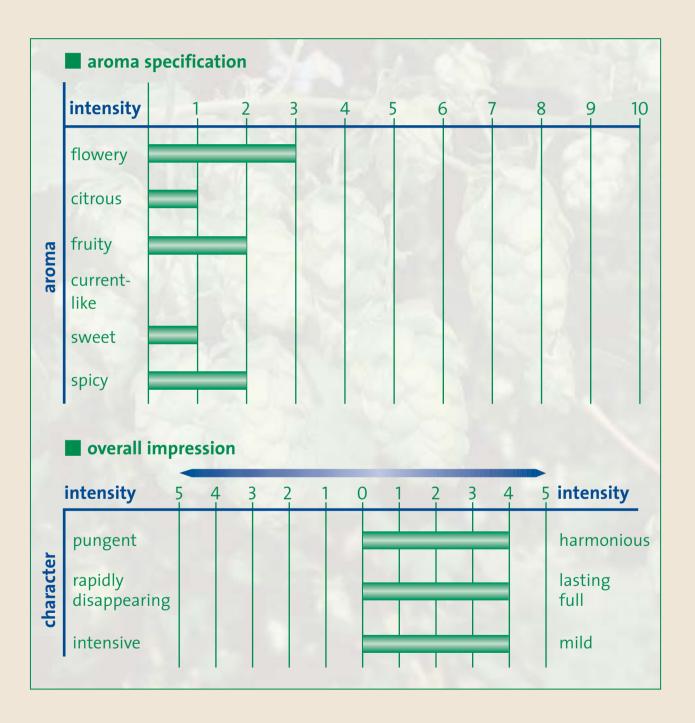
^(*)weight-% - ^(x)% relative - ^(·)ml/100g hops

Headspace Gaschromatogramme



1 = myrcene · ISN = internal standard · 2 = linalool · 3 = beta-caryophyllene · 4 = aromadendrene · 5 = humulene · 6 = farnesene 7 = beta-selinene · 8 = alpha-selinene

Spalter Evaluation





The local variety Spalter belongs to the Saazer range and is solely grown in Spalt. It is relatively resistant to wilt and other diseases. The yields are not always satisfactory.



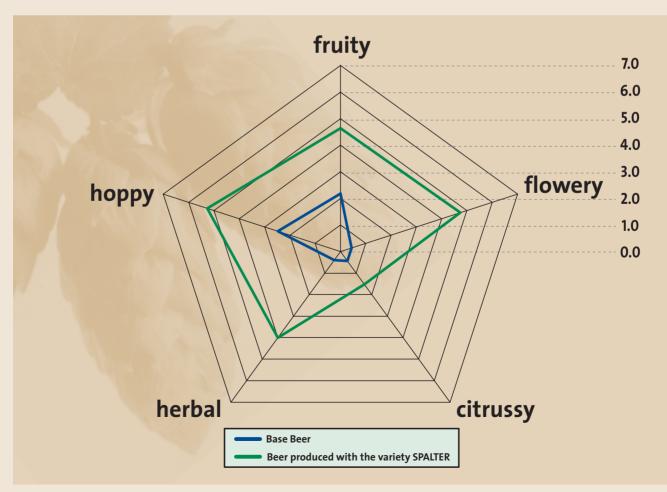
Brewing trial: Spalter



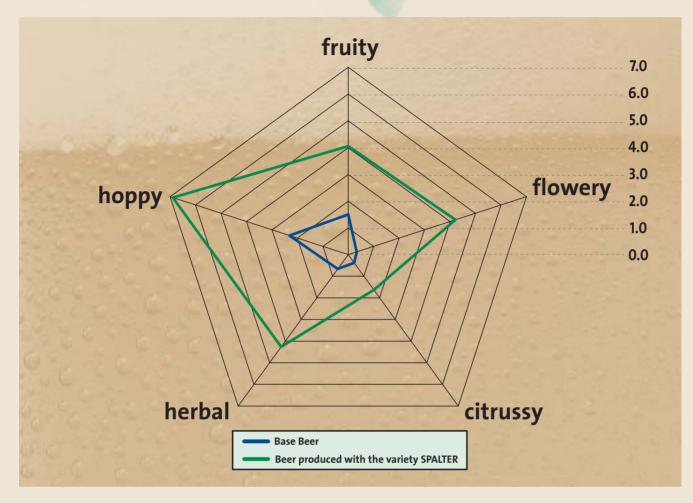
1. Beer Analysis

co-isohumulone	7.2 mg/l	iso-xanthohumol	0.75 mg/l
n-isohumulone	12.8 mg/l	xanthohumol	0.01 mg/l
ad-isohumulone	3.3 mg/l	linalool	49 µg/l
Σ isohumulones	23.3 mg/l	total polyphenols	253 mg/l
bitterness	27 EBC-BU		

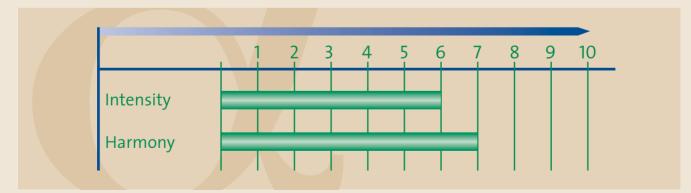
2. Sensory Evaluation "Hop Aroma" (Smell)



3. Sensory Evaluation "Hop Flavour" (Taste)



4. Sensory Evaluation of the Bitterness



The variety Spalter imparts the beer a strong but harmonic bitterness. In smell all the aroma impressions except citrussy are evident, in taste the hoppy character distinctly stands out.