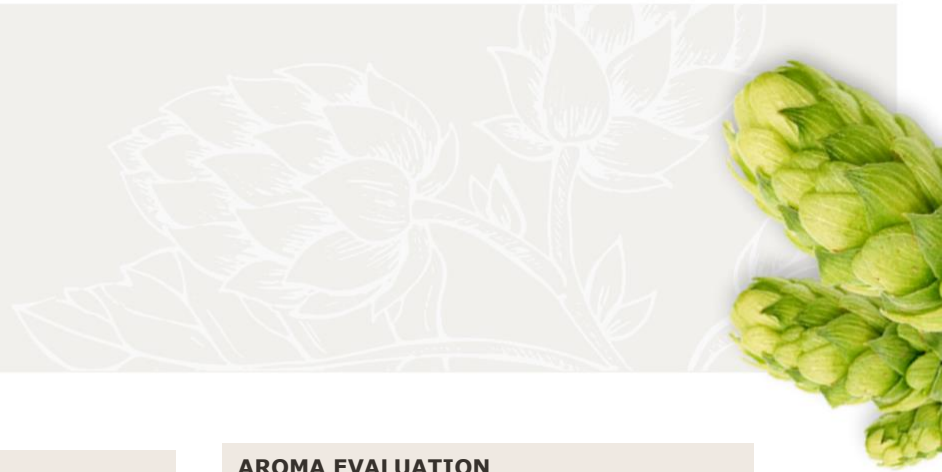


CASCADE

Fruity, Citrusy and Herbal



QUICK SPECS

GENETIC ORIGIN	Open pollinated of a Fuggle seedling, itself derived from crosses between Fuggle and the Russian hop Serebrianka.
YIELD (KG/HA)	1,600 – 2,200
MAIN GROWING COUNTRY	USA

RESISTANCE AGAINST DISEASES

DOWNY MILDEW	Tolerant
POWDERY MILDEW	Susceptible

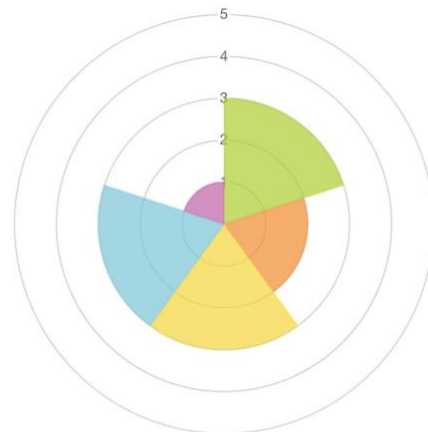
CHEMICAL INGREDIENTS – BITTER COMPONENTS

ALPHA ACID	4.5 - 7.0 %
BETA ACID	4.5 - 7.0 %
CO-HUMULONE	33.0 - 40.0%
HARD RESINS : ALPHA-ACID	0.27 - 0.56

CHEMICAL INGREDIENTS – AROMA COMPONENTS

TOTAL OILS	0.8 - 1.5 ml/100g
BETA-CARYOPHYLLENE : HUMULENE	0.32%
FARNESENE % OF TOTAL OIL	4.0 - 8.0%
LINALOOL % OF TOTAL OIL	0.4 - 0.6%
LINALOOL : ALPHA-ACID	0.09 - 0.10%

AROMA EVALUATION



HERBAL SPICY CITRUSY FRUITY
FLORAL

Rated by the smell of raw products on a scale of 0-5



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