



Hopunion CBS, LLC

GR MAGNUM

Pedigree	Bred at the Hop Research Institute in Hüll (Germany)
Maturity	Late
Yield	1900 – 2100 kg./ha. or 1340 – 1700 lb./ac.
Growth Habit	Average
Disease/Pest Susceptibility	Good resistance to wilt and peronospora, low resistance to powdery mildew
Pickability/Drying/Baling	Good
Cone-Structure	Large cone
Lupulin	Plentiful
Aroma	No real distinct aroma character, so is viewed favorably as a clean bittering hop
Alpha Acids	12 – 14% w/w
Beta Acids	4.5 – 5% w/w
Co-Humulone	24 – 25% of alpha acids
Storageability	Very good
Total Oil	1.9 – 2.3 mls/100 grams
Myrcene	30 – 35% of whole oil
Humulene	34 – 40% of whole oil
Caryophyllene	8 – 12% of whole oil
Farnesene	<1% of whole oil
General Trade Perception	This high-alpha variety is a very promising new breed from the Hop Research Institution in Hüll with good resistance characteristics, high yield and good growth.
Possible Substitutions	Columbus, Nugget
Typical Beer Styles	Lagers, Pilsner types, Stout, Ales. Typically base bitterness in Lager beers (commonly used as a first hop addition) and at the same time, used by many ale brewers too.
Additional Information	Hallertau Magnum is the second largest hop variety and the main high alpha variety grown in Germany.
Personal Notes:	