

Hopsteiner Hop Oils

Type Dry "generic" pure	Myrcene:	55 – 75 %
	Humulene:	8 – 15 %
	Caryophyllene:	5 – 10 %

Type Dry "variety specific" pure	Myrcene:	depending on variety
	Humulene:	depending on variety
	Caryophyllene:	depending on variety

Type Noble pure	Linalool: 10 %	Specific ratios
		Linalool / Myrcene: > 0,5
		Linalool / Caryophyllene: > 4
		Linalool / Humulene: > 1
		Linalool / Farnesene: > 10

Type Noble Plus pure	Linalool: 20 %	Specific ratios
		Linalool / Myrcene: > 5
		Linalool / Caryophyllene: > 30
		Linalool / Humulene: > 15
		Linalool / Farnesene: > 25

Hop Oils are usually delivered as follows:	
Type Noble / Type Noble Plus	diluted 1:100 in PG
Type Dry / Type Dry "variety specific"	diluted 1:100 in 95 % PG / 5 % Ethanol
Customer specific dilutions on request.	

Each hop oil provides a different flavour to the beer. Furthermore the dosed quantity also has a strong influence on the final aroma. Principally we can indicate the following:

Flavour					
Time of addition	Quantity of 1:100 diluted oil	Type Dry "generic"	Type Dry "variety specific"	Type Noble	Type Noble Plus (less spicy compared to Type Noble)
Prior to fermentation	5 – 50 g/hl	slightly hoppy and grassy	less pronounced variety specific aroma*		
Maturation tank	50 – 300 g/hl	hoppy and grassy	variety specific* dry hopping character		
Prior to filtration	1 – 20 g/hl	depending on dosing rate from weak to strong hoppy, herbal, grassy character	depending on dosing rate from weak to strong varietal* character		
Prior to filtration	Up to 20 mg/l	(corresponding to 20 µg/l Linalool)		mild hoppy, a bit herbal	
	Up to 60 mg/l	(corresponding to 60 µg/l Linalool)		mild hoppy, herbal and floral	
	Up to 100 mg/l	(corresponding to 100 µg/l Linalool)		hoppy, herbal and floral	
Prior to filtration	Up to 10 mg/l	(corresponding to 20 µg/l Linalool)			mild hoppy character
	Up to 30 mg/l	(corresponding to 60 µg/l Linalool)			hoppy and floral
	Up to 50 mg/l	(corresponding to 100 µg/l Linalool)			floral, fruity and a bit citrusy

* according to the special flavour descriptions for the corresponding varieties