# **Brew Dog Hardcore IPA**

- Gravity 19.3 BLG ABV 8.4 %
- IBU 124
- SRM 8.9
- Style American IPA

### **Batch size**

- Expected quantity of finished beer 20 liter(s)
- Trub loss 5 %
- Size with trub loss 22 liter(s)
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 26.4 liter(s)

## **Mash information**

- Mash efficiency **75** %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 24.6 liter(s)
- Total mash volume 32.8 liter(s)

#### **Steps**

• Temp 65 C, Time 75 min

## Mash step by step

- Heat up 24.6 liter(s) of strike water to 72.5C
- Add grains
- Keep mash 75 min at 65C
- Sparge using 10 liter(s) of 76C water or to achieve 26.4 liter(s) of wort

#### **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Simpsons - Maris Otter	7.5 kg <i>(91.5%)</i>	81 %	6
Grain	Briess - 2 Row Carapils Malt	0.4 kg <i>(4.9%)</i>	75 %	3
Grain	Strzegom Karmel 150	0.3 kg <i>(3.7%)</i>	75 %	150

#### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Columbus/Tomahawk/Zeus	50 g	60 min	15.5 %
Boil	Columbus/Tomahawk/Zeus	20 g	30 min	15.5 %
Boil	Centennial	20 g	30 min	10.5 %
Boil	Simcoe	20 g	30 min	13.2 %
Aroma (end of boil)	Columbus/Tomahawk/Zeus	20 g	5 min	15.5 %
Aroma (end of boil)	Centennial	20 g	5 min	10.5 %
Aroma (end of boil)	Simcoe	20 g	5 min	13.2 %
Dry Hop	Columbus/Tomahawk/Zeus	100 g	5 day(s)	15.5 %
Dry Hop	Centennial	100 g	5 day(s)	10.5 %
Dry Hop	Simcoe	100 g	5 day(s)	13.2 %
Dry Hop	Amarillo	100 g	5 day(s)	9.5 %

## **Yeasts**

Name	Туре	Form	Amount	Laboratory
Safale S-04	Ale	Dry	20 g	Fermentis