

## 21. "Art Modern" - Modern Bitter

- Gravity **9.3 BLG**
- ABV **3.6 %**
- IBU **46**
- SRM **3.8**
- Style **Special/Best/Premium Bitter**

### Batch size

- Expected quantity of finished beer **23 liter(s)**
- Trub loss **5 %**
- Size with trub loss **24.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **29 liter(s)**

### Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **12.8 liter(s)**
- Total mash volume **17 liter(s)**

### Steps

- Temp **52 C**, Time **10 min**
- Temp **62 C**, Time **30 min**
- Temp **72 C**, Time **30 min**
- Temp **78 C**, Time **5 min**

### Mash step by step

- Heat up **12.8 liter(s)** of strike water to **57.3C**
- Add grains
- Keep mash **10 min** at **52C**
- Keep mash **30 min** at **62C**
- Keep mash **30 min** at **72C**
- Keep mash **5 min** at **78C**
- Sparge using **20.5 liter(s)** of **76C** water or to achieve **29 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński	2.25 kg (52.9%)	81 %	4
Grain	Strzegom Wiedeński	1.55 kg (36.5%)	79 %	10
Grain	Steinbach Karamel Pils	0.45 kg (10.6%)	79 %	6

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Citra	25 g	60 min	12 %
Boil	Cascade	20 g	30 min	6 %
Aroma (end of boil)	Cascade	30 g	5 min	6 %

### Yeasts

Name	Type	Form	Amount	Laboratory
Danstar - Nottingham	Ale	Dry	11.5 g	Danstar

### Notes

- uwarzone 22-06-2017r.

Recipe has been printed via **BREWNES.com** - a complex online solution for homebrewers to track brewing process easily.

*Oct 31, 2020, 9:57 PM*