

# altbier

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- Gravity **11.7 BLG**
- ABV **4.7 %**
- IBU **28**
- SRM **17**

## Batch size

- Expected quantity of finished beer **9 liter(s)**
- Trub loss **5 %**
- Size with trub loss **9.4 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **11.3 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **7.3 liter(s)**
- Total mash volume **9.3 liter(s)**

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pszeniczny	1 kg (48.2%)	85 %	4
Grain	Strzegom Monachijski typ II	0.75 kg (36.1%)	79 %	22
Grain	Weyermann Specjal W	0.2 kg (9.6%)	68 %	300
Grain	Karmelowy Czerwony	0.1 kg (4.8%)	75 %	59
Grain	Fawcett - Pszeniczny Czekoladowy	0.025 kg (1.2%)	73 %	1001

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Topaz	3 g	50 min	18 %
Boil	Oktawia	15 g	10 min	7.1 %
Whirlpool	Oktawia	15 g	10 min	7.1 %