

# Ciemny Dąb

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- Gravity **10 BLG**
- ABV **4 %**
- IBU **28**
- SRM **22.9**
- Style **American Barleywine**

## Batch size

- Expected quantity of finished beer **8 liter(s)**
- Trub loss **5 %**
- Size with trub loss **8.4 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **10.1 liter(s)**

## Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **6.1 liter(s)**
- Total mash volume **7.9 liter(s)**

## Steps

- Temp **67 C**, Time **60 min**
- Temp **78 C**, Time **5 min**

## Mash step by step

- Heat up **6.1 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **60 min** at **67C**
- Keep mash **5 min** at **78C**
- Sparge using **5.8 liter(s)** of **76C** water or to achieve **10.1 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Grodziski pszeniczny wędzony dębem	1 kg (57.1%)	80 %	3
Grain	Jęczmień palony	0.15 kg (8.6%)	55 %	985
Grain	Castle Pale Ale	0.6 kg (34.3%)	80 %	8

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	lunga	8 g	45 min	11.5 %
Boil	Lublin (Lubelski)	10 g	5 min	4 %