

FES by Dori

- Gravity **15 BLG**
- ABV **6.2 %**
- IBU **39**
- SRM **26.5**
- Style **Foreign Extra Stout**

Batch size

- Expected quantity of finished beer **15 liter(s)**
- Trub loss **5 %**
- Size with trub loss **17.3 liter(s)**
- Boil time **60 min**
- Evaporation rate **15 %/h**
- Boil size **21.6 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **2.5 liter(s) / kg**
- Mash size **12.2 liter(s)**
- Total mash volume **17.1 liter(s)**

Steps

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

Mash step by step

- Heat up **12.2 liter(s)** of strike water to **76.4C**
- Add grains
- Keep mash **60 min** at **67C**
- Sparge using **14.3 liter(s)** of **76C** water or to achieve **21.6 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński	4 kg (81.6%)	81 %	4
Grain	Caraaroma	0.25 kg (5.1%)	78 %	400
Grain	Płatki owsiane	0.3 kg (6.1%)	85 %	3
Grain	Jęczmień palony	0.15 kg (3.1%)	55 %	985
Grain	Carafa	0.1 kg (2%)	70 %	664
Grain	Strzegom Karmel 600	0.1 kg (2%)	68 %	601

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Challenger	35 g	60 min	7 %
Boil	Challenger	20 g	15 min	7 %

Yeasts

Name	Type	Form	Amount	Laboratory
Danstar - Windsor Ale	Ale	Slant	75 ml	Danstar