

LAMPIRAN

1. Flux Density untuk sudut 30° , $h = 0$ cm, Rata-rata massa : 1.40 g

| Baris kolom | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|-------------|------|------|------|------|------|------|------|------|------|------|------|
| 1 | 1.14 | 2.45 | 2.24 | 1.37 | 0.71 | 1.42 | 1.14 | 1.73 | 1.8 | 2.12 | 2.2 |
| 2 | 1.05 | 1.06 | 1.39 | 0.86 | 0.49 | 0.96 | 1.4 | 2.4 | 2.19 | 2.83 | 2.01 |
| 3 | 0.95 | 1.37 | 1.14 | 1.48 | 1.13 | 1.53 | 1.62 | 1.74 | 2.7 | 2.11 | 2.52 |
| 4 | 0.85 | 1.33 | 0.73 | 1.17 | 1.07 | 1.9 | 1.51 | 1.68 | 1.83 | 1.7 | 2.49 |
| 5 | 1.2 | 0.91 | 1.19 | 1.36 | 1.32 | 1.01 | 2.21 | 2.17 | 2.54 | 2.29 | 2.83 |
| 6 | 1.07 | 1.45 | 1.09 | 1.52 | 1.91 | 1.72 | 1.12 | 1.89 | 1.73 | 1.78 | 1.9 |
| 7 | 0.75 | 1.4 | 1.08 | 1.68 | 2.17 | 1.83 | 1.86 | 2.55 | 0.98 | 2.69 | 2.26 |
| 8 | 1.09 | 1.28 | 1.3 | 1.45 | 1.41 | 2.54 | 2.99 | 1.81 | 1.77 | 1.36 | 2.78 |
| 9 | 1.11 | 0.84 | 0.79 | 1.14 | 0.9 | 1.33 | 1.39 | 1.83 | 1.29 | 1.6 | 2.13 |
| 10 | 1.32 | 0.86 | 0.99 | 0.59 | 1.14 | 0.83 | 1.04 | 0.89 | 0.81 | 0.98 | 1.16 |
| 11 | 1.2 | 0.74 | 0.9 | 0.33 | 0.42 | 0.55 | 0.77 | 0.97 | 0.96 | 0.45 | 0.47 |

2. Flux Density untuk sudut 30° , $h = 2$ cm, Rata-rata massa : 1.29 g

| Baris kolom | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|-------------|------|------|------|------|------|------|------|------|------|------|------|
| 1 | 2.76 | 2.99 | 1.17 | 1.24 | 1.95 | 1.46 | 1.28 | 1.52 | 1.32 | 1.45 | 1.14 |
| 2 | 1.2 | 1.38 | 1.25 | 0.97 | 1.81 | 1.96 | 1.64 | 2.76 | 1.91 | 2.06 | 2.84 |
| 3 | 1.42 | 2.04 | 1.53 | 2.21 | 2.8 | 2.34 | 1.71 | 1.45 | 2.3 | 1.35 | 2.25 |
| 4 | 1.07 | 1.04 | 1.63 | 1.36 | 1.31 | 1.47 | 2.63 | 2.04 | 1.57 | 2.14 | 1.53 |
| 5 | 1.1 | 0.98 | 1.08 | 1.78 | 1.44 | 1.01 | 0.45 | 1.77 | 2.25 | 2.12 | 1.92 |
| 6 | 0.27 | 0.92 | 2.14 | 2.22 | 1.63 | 2.13 | 1.92 | 1.49 | 1.78 | 1.48 | 2.17 |
| 7 | 0.47 | 1.13 | 1.06 | 1.42 | 2.25 | 1.68 | 2.34 | 2.17 | 1.59 | 0.9 | 1.9 |
| 8 | 0.29 | 0.67 | 1.11 | 1.19 | 1.47 | 1.31 | 1.31 | 1.69 | 1.94 | 0.15 | 0.66 |
| 9 | 0.02 | 0.73 | 0.33 | 1.29 | 0.9 | 1.93 | 2.33 | 0.89 | 0.81 | 0.7 | 1.45 |
| 10 | 0.11 | 0.13 | 0.2 | 0.48 | 0.58 | 1.59 | 0.25 | 0.46 | 0.91 | 0.42 | 0.77 |
| 11 | 0.21 | 0.02 | 0.17 | 0.12 | 0.32 | 0.69 | 0.87 | 0.76 | 0.18 | 0.7 | 0.11 |

3. Flux Density untuk sudut 30° , $h = 4$ cm, Rata-rata massa : 1.1 g

| Baris kolom | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|-------------|------|------|------|------|------|------|------|------|------|------|------|
| 1 | 0.54 | 0.46 | 0.76 | 0.56 | 0.75 | 0.7 | 0.51 | 0.46 | 0.3 | 0.89 | 0.03 |
| 2 | 0.74 | 0.79 | 0.47 | 0.77 | 0.74 | 1.09 | 0.81 | 0.37 | 0.55 | 1.09 | 0.06 |
| 3 | 1.02 | 1.2 | 1.12 | 1.63 | 1.18 | 0.92 | 1.04 | 1.51 | 0.83 | 1.08 | 1.26 |
| 4 | 1.17 | 1.33 | 1.24 | 1.11 | 1.52 | 1.75 | 1.14 | 1.37 | 1.38 | 0.82 | 1.11 |
| 5 | 1.1 | 1.02 | 1.37 | 1.38 | 1.11 | 1.96 | 1.49 | 2.29 | 0.75 | 1.21 | 1.23 |
| 6 | 0.79 | 0.99 | 1.29 | 2.59 | 1.33 | 1.76 | 2.1 | 1.23 | 1.19 | 1.17 | 1.07 |
| 7 | 1.54 | 1.3 | 1.97 | 1.79 | 1.22 | 1.81 | 1.68 | 2.11 | 1.2 | 1.27 | 1.22 |
| 8 | 1.04 | 0.54 | 0.78 | 1.5 | 2.42 | 2.21 | 2.2 | 1.64 | 1.27 | 1.05 | 1.03 |
| 9 | 0.93 | 1.22 | 1.42 | 1.18 | 2.34 | 2.05 | 1.92 | 1.55 | 1.01 | 0.97 | 0.8 |
| 10 | 0.47 | 1.12 | 1.41 | 1.84 | 1.55 | 1.41 | 2.03 | 1.69 | 1.33 | 0.83 | 0.68 |
| 11 | 1.15 | 1.16 | 1.94 | 2.03 | 1.49 | 2.21 | 2.23 | 1.59 | 1.14 | 0.72 | 0.65 |

4. Flux Density untuk sudut 45° , $h = 0$ cm, Rata-rata massa : 1.3 g

| Baris kolom | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|-------------|------|------|------|------|------|------|------|------|------|------|------|
| 1 | 0.95 | 0.9 | 1.57 | 1.97 | 0.8 | 1.21 | 0.99 | 1.24 | 0.69 | 0.67 | 1.25 |
| 2 | 0.6 | 0.92 | 1.95 | 1.98 | 1.13 | 0.79 | 1.73 | 1.58 | 0.47 | 0.82 | 1.13 |
| 3 | 0.61 | 0.98 | 1.51 | 1.33 | 0.96 | 1.99 | 1.36 | 2.58 | 1.29 | 1.13 | 1.37 |
| 4 | 0.72 | 1.02 | 1.51 | 1.22 | 1.81 | 1.7 | 1.43 | 2.16 | 1.43 | 1.57 | 2.02 |
| 5 | 0.56 | 0.66 | 1.52 | 2.08 | 1.54 | 2.08 | 2.37 | 1.67 | 1.64 | 1.12 | 1.44 |
| 6 | 0.8 | 1.32 | 1.04 | 1.58 | 2.04 | 2.22 | 3.09 | 2.01 | 1.98 | 1.95 | 1.39 |
| 7 | 0.78 | 1.06 | 1.38 | 1.06 | 1.31 | 1.75 | 2.38 | 1.15 | 1.04 | 1.75 | 1.3 |
| 8 | 0.72 | 0.79 | 1.16 | 1.89 | 1.91 | 1.86 | 1.17 | 0.5 | 0.51 | 1.76 | 0.87 |
| 9 | 0.32 | 0.62 | 1.15 | 2.38 | 2.15 | 1.63 | 1.45 | 1.27 | 0.91 | 1.43 | 1.53 |
| 10 | 0.27 | 0.6 | 1.16 | 1.61 | 2.31 | 2.45 | 2.03 | 1.74 | 0.66 | 0.86 | 1.51 |
| 11 | 0.3 | 0.52 | 1.2 | 1.24 | 0.86 | 2.07 | 1.51 | 1.51 | 0.69 | 1.56 | 0.71 |

5. Flux Density untuk sudut 45° , $h = 2$ cm, Rata-rata massa : 1.2 g

| Baris kolom | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|-------------|------|------|------|------|------|------|------|------|------|------|------|
| 1 | 0.84 | 0.14 | 0.05 | 0.42 | 0.23 | 1 | 0.5 | 0.66 | 0.6 | 0.81 | 0.15 |
| 2 | 0.14 | 0.24 | 0.38 | 0.85 | 0.9 | 1.07 | 0.53 | 1.34 | 0.8 | 1.15 | 0.56 |
| 3 | 0.05 | 0.14 | 0.43 | 1.01 | 1.13 | 1.09 | 1.21 | 1.55 | 0.77 | 1.32 | 0.91 |
| 4 | 0.15 | 0.59 | 1.16 | 1.22 | 1.11 | 1.75 | 0.32 | 1.9 | 1.47 | 2.4 | 1.76 |
| 5 | 0.31 | 0.69 | 0.97 | 1.41 | 1.42 | 1.2 | 1.2 | 1.61 | 2.17 | 1.76 | 1 |
| 6 | 0.28 | 0.63 | 0.7 | 1.1 | 1.35 | 2.16 | 1.76 | 2.31 | 2.48 | 2.28 | 2.14 |
| 7 | 0.36 | 0.2 | 1 | 0.94 | 0.53 | 1.9 | 0.87 | 1.46 | 1.59 | 1.01 | 2.5 |
| 8 | 0.57 | 0.68 | 0.58 | 1.5 | 2.34 | 1.15 | 1.33 | 1.18 | 2.16 | 1.93 | 1.56 |
| 9 | 0.5 | 0.46 | 1.56 | 1.07 | 1.18 | 2.14 | 2.54 | 2.27 | 1.22 | 1.27 | 2.02 |
| 10 | 0.66 | 0.85 | 1.02 | 1.39 | 2.25 | 2.04 | 1.86 | 1.31 | 1.73 | 2.22 | 2.27 |
| 11 | 0.82 | 2.24 | 0.56 | 1.66 | 2.06 | 1.79 | 1.43 | 1.53 | 1.61 | 0.98 | 2.43 |

6. Flux Density untuk sudut 45° , $h = 4$ cm, Rata-rata massa : 1.09 g

| Baris kolom | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|-------------|------|------|------|------|------|------|------|------|------|------|------|
| 1 | 0.1 | 0.07 | 0.19 | 0.67 | 0.66 | 0.65 | 0.37 | 0.55 | 0.53 | 0.7 | 0.9 |
| 2 | 0.06 | 0.03 | 0.32 | 0.74 | 0.92 | 1.29 | 0.55 | 0.86 | 0.76 | 1.01 | 0.48 |
| 3 | 0.05 | 0.15 | 0.06 | 1.12 | 0.79 | 0.86 | 1.64 | 0.54 | 0.86 | 0.4 | 0.94 |
| 4 | 0.09 | 0.23 | 1.45 | 1.29 | 1.18 | 1.14 | 1.27 | 0.61 | 1.62 | 0.94 | 1.1 |
| 5 | 0.22 | 0.13 | 0.74 | 0.98 | 1.33 | 1.57 | 1.48 | 1.88 | 0.9 | 1.77 | 1.68 |
| 6 | 0.05 | 0.24 | 0.85 | 1.36 | 1.72 | 0.97 | 1 | 2.11 | 1.19 | 1.94 | 1.12 |
| 7 | 0.12 | 0.45 | 0.86 | 1.06 | 1.5 | 1.54 | 2.87 | 1.55 | 1.49 | 1.83 | 1.45 |
| 8 | 0.46 | 0.33 | 0.83 | 0.91 | 1.56 | 2.46 | 1.54 | 1.12 | 1.56 | 1.56 | 2.19 |
| 9 | 0.17 | 0.39 | 0.72 | 1.19 | 1.56 | 1.76 | 1.72 | 2.69 | 1.88 | 2.92 | 1.93 |
| 10 | 0.34 | 1.19 | 1.1 | 1.54 | 1.36 | 1.57 | 1.4 | 1.35 | 1.2 | 1.81 | 2.1 |
| 11 | 1.79 | 0.43 | 0.47 | 1.72 | 0.85 | 2.03 | 1.39 | 1.6 | 1.47 | 1.9 | 2.14 |

7. Flux Density untuk sudut 60° , $h = 0$ cm, Rata-rata massa : 1g

| Baris kolom | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|-------------|------|------|------|------|------|------|------|------|------|------|------|
| 1 | 0.63 | 1.04 | 1.09 | 1.4 | 1.74 | 1.52 | 1.53 | 1.01 | 1.3 | 0.98 | 1.12 |
| 2 | 0.92 | 1.08 | 1.31 | 1.5 | 1.03 | 1.42 | 1.06 | 1.56 | 1.25 | 1.75 | 1.66 |
| 3 | 1.6 | 1.29 | 0.89 | 0.94 | 0.86 | 0.94 | 1.18 | 0.45 | 0.85 | 1.52 | 0.95 |
| 4 | 0.92 | 0.64 | 1.22 | 1 | 1.96 | 0.87 | 0.85 | 0.87 | 1.53 | 0.78 | 1.07 |
| 5 | 1.28 | 1.61 | 1.44 | 0.97 | 0.95 | 0.51 | 0.52 | 0.32 | 0.56 | 0.95 | 0.72 |
| 6 | 0.78 | 1.01 | 1.61 | 1.35 | 1.33 | 0.61 | 0.67 | 0.55 | 0.42 | 0.15 | 0.35 |
| 7 | 1.08 | 0.62 | 1.09 | 0.73 | 0.82 | 0.83 | 0.78 | 0.55 | 0.48 | 0.37 | 0.56 |
| 8 | 1.49 | 1.36 | 1.27 | 1.38 | 1.58 | 1.51 | 0.75 | 0.37 | 0.49 | 0.56 | 0.52 |
| 9 | 0.93 | 1.51 | 0.83 | 1 | 1.59 | 0.91 | 1.01 | 1.18 | 0.64 | 0.17 | 0.1 |
| 10 | 1.02 | 1.48 | 1.12 | 2.56 | 1.41 | 1.01 | 1.32 | 0.23 | 0.5 | 0.5 | 0.53 |
| 11 | 0.76 | 0.78 | 1.35 | 2.94 | 1.52 | 0.66 | 0.84 | 0.41 | 0.58 | 0.51 | 0.89 |

8. Flux Density untuk sudut 60° , $h = 2$ cm, Rata-rata massa : 0.84g

| Baris kolom | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|-------------|------|------|------|------|------|------|------|------|------|------|------|
| 1 | 0.08 | 0.1 | 0.28 | 0.45 | 0.87 | 1.22 | 1.42 | 0.86 | 0.81 | 0.68 | 0.76 |
| 2 | 0.08 | 0.07 | 0.26 | 0.74 | 0.81 | 1.32 | 0.91 | 1.2 | 0.92 | 1.11 | 0.29 |
| 3 | 0.04 | 0.24 | 0.35 | 0.57 | 0.57 | 1.13 | 1.49 | 0.62 | 0.64 | 1.02 | 0.88 |
| 4 | 0.2 | 0.56 | 0.38 | 0.74 | 0.64 | 1.07 | 1.19 | 1.27 | 1.07 | 1.01 | 0.35 |
| 5 | 0.5 | 0.88 | 1.01 | 1.07 | 1.31 | 0.97 | 1.53 | 0.72 | 0.9 | 0.57 | 1.23 |
| 6 | 1.21 | 1.26 | 1.34 | 1.8 | 1.3 | 1.16 | 1.19 | 0.91 | 1.1 | 1.06 | 0.44 |
| 7 | 0.9 | 1 | 1.34 | 1.25 | 1.58 | 1.71 | 1.21 | 1.55 | 0.93 | 0.96 | 1.03 |
| 8 | 0.46 | 0.63 | 0.84 | 1.49 | 1.69 | 1.33 | 0.87 | 1.8 | 0.76 | 0.79 | 0.62 |
| 9 | 0.21 | 0.28 | 0.47 | 0.97 | 1.43 | 1.66 | 1.28 | 1.21 | 0.78 | 0.95 | 1.03 |
| 10 | 0.04 | 0.11 | 0.2 | 0.73 | 1.04 | 1.26 | 1.36 | 0.76 | 0.9 | 0.5 | 0.22 |
| 11 | 0.04 | 0.01 | 0.13 | 0.38 | 0.69 | 0.79 | 1.01 | 0.71 | 0.74 | 0.88 | 0.38 |

9. Flux Density untuk sudut 60° , $h = 4$ cm, Rata-rata massa : 0.82g

| Baris kolom | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|-------------|------|------|------|------|------|------|------|------|------|------|------|
| 1 | 0.22 | 0.38 | 0.7 | 0.92 | 1.11 | 1.08 | 0.86 | 0.4 | 0.37 | 0.13 | 0.27 |
| 2 | 0.66 | 0.92 | 1.14 | 0.64 | 1.41 | 1.25 | 0.46 | 0.41 | 0.58 | 0.7 | 0.05 |
| 3 | 0.6 | 0.95 | 0.52 | 0.86 | 0.57 | 0.77 | 1.17 | 0.81 | 1.47 | 0.58 | 0.63 |
| 4 | 0.54 | 0.85 | 1.61 | 1.57 | 1.85 | 0.98 | 1.12 | 0.63 | 0.8 | 0.8 | 0.96 |
| 5 | 1.24 | 1.43 | 1.13 | 1.23 | 0.4 | 1.09 | 0.69 | 0.88 | 0.43 | 0.87 | 0.99 |
| 6 | 1.37 | 1.01 | 1.7 | 0.72 | 1.06 | 1.2 | 0.71 | 0.48 | 0.59 | 0.69 | 0.43 |
| 7 | 0.87 | 1.44 | 1.03 | 1.17 | 0.19 | 0.89 | 0.16 | 0.45 | 0.35 | 0.46 | 0.24 |
| 8 | 1.33 | 0.85 | 1.07 | 1.3 | 0.99 | 0.47 | 0.77 | 0.33 | 0.21 | 0.22 | 1.76 |
| 9 | 0.85 | 1.28 | 1.52 | 1.51 | 0.84 | 0.34 | 0.58 | 0.22 | 0.16 | 0.03 | 0.23 |
| 10 | 1.04 | 1.7 | 0.77 | 1.08 | 1.44 | 1.33 | 0.66 | 0.53 | 0.14 | 0.05 | 0.56 |
| 11 | 1.35 | 1.42 | 1.3 | 1.99 | 1.75 | 1.07 | 1.24 | 0.43 | 0.19 | 0.03 | 0.38 |

10. Flux Density untuk sudut 30° turbulensi $h = 0$ cm, Rata-rata massa : 0.81 g

| Baris kolom | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|-------------|------|------|------|------|------|------|------|------|------|------|------|
| 1 | 0.51 | 0.46 | 0.94 | 0.49 | 0.75 | 0.97 | 0.42 | 0.96 | 0.58 | 1.01 | 0.24 |
| 2 | 0.73 | 0.16 | 0.84 | 0.82 | 1.03 | 1.08 | 0.7 | 1.34 | 1 | 1.12 | 0.25 |
| 3 | 0.44 | 0.17 | 0.61 | 0.73 | 1.66 | 0.37 | 1.59 | 0.93 | 1.22 | 0.94 | 0.37 |
| 4 | 0.64 | 0.54 | 0.72 | 1.05 | 1.29 | 1.57 | 1.15 | 1.02 | 0.89 | 0.89 | 0.56 |
| 5 | 0.67 | 0.83 | 1.1 | 1.36 | 1.37 | 1.87 | 1.26 | 1.09 | 0.89 | 0.65 | 0.33 |
| 6 | 0.97 | 1.09 | 1.41 | 1.42 | 1.36 | 1 | 0.56 | 0.71 | 0.69 | 0.5 | 0.05 |
| 7 | 1.64 | 1.36 | 1.57 | 1.6 | 1.48 | 1.12 | 0.58 | 0.63 | 0.46 | 0.27 | 0.09 |
| 8 | 0.75 | 2.1 | 1.4 | 1.08 | 1.39 | 1.02 | 0.71 | 0.82 | 0.45 | 0.3 | 0.06 |
| 9 | 1.02 | 1.66 | 1.72 | 1.56 | 1.66 | 1.43 | 0.61 | 0.61 | 0.51 | 0.4 | 0.07 |
| 10 | 0.83 | 0.6 | 1.22 | 1.73 | 1.69 | 1.39 | 0.93 | 1.03 | 0.64 | 0.02 | 0.05 |
| 11 | 0.64 | 1.26 | 2.76 | 1.35 | 1.49 | 1.94 | 1.52 | 0.91 | 0.82 | 0.24 | 0.04 |

11. Flux Density untuk sudut 30° turbulensi $h = 2$ cm, Rata-rata massa : 0.70 g

| Baris kolom | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|-------------|------|------|------|------|------|------|------|------|------|------|------|
| 1 | 1.28 | 0.81 | 0.21 | 0.49 | 0.38 | 0.58 | 1.16 | 0.72 | 0.58 | 0.77 | 0.42 |
| 2 | 0.88 | 0.28 | 0.36 | 0.57 | 0.76 | 0.71 | 1.56 | 0.56 | 0.22 | 0.98 | 0.44 |
| 3 | 0.58 | 0.24 | 0.43 | 0.78 | 0.73 | 1.36 | 1.43 | 0.64 | 0.2 | 0.37 | 0.75 |
| 4 | 0.51 | 0.27 | 0.44 | 0.55 | 0.89 | 1.59 | 0.74 | 0.76 | 0.46 | 0.43 | 0.73 |
| 5 | 0.53 | 0.44 | 1.13 | 0.8 | 0.43 | 0.91 | 0.91 | 0.43 | 1.16 | 0.53 | 0.09 |
| 6 | 0.45 | 0.75 | 0.77 | 0.94 | 0.85 | 1.54 | 0.68 | 1.35 | 0.11 | 0.48 | 0.28 |
| 7 | 1.1 | 0.92 | 1.69 | 0.68 | 0.89 | 0.54 | 0.98 | 0.72 | 0.55 | 0.73 | 0.17 |
| 8 | 0.37 | 1.03 | 0.64 | 1.17 | 1.61 | 1.99 | 1.2 | 0.97 | 0.87 | 0.27 | 0.06 |
| 9 | 0.61 | 1.23 | 0.78 | 0.97 | 1.74 | 0.99 | 0.96 | 0.82 | 1.03 | 0.97 | 0.33 |
| 10 | 0.46 | 0.83 | 1.18 | 0.99 | 1.26 | 1.19 | 1.13 | 1.35 | 1 | 1.2 | 0.48 |
| 11 | 1.95 | 1.83 | 0.96 | 2.04 | 1.41 | 1.05 | 1.36 | 1.04 | 1.24 | 0.89 | 0.96 |

12. Flux Density untuk sudut 30° turbulensi $h = 4$ cm, Rata-rata massa : 0.63 g

| Baris kolom | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|-------------|------|------|------|------|------|------|------|------|------|------|------|
| 1 | 0.04 | 0.06 | 0.25 | 0.67 | 0.27 | 0.54 | 0.47 | 0.33 | 0.57 | 0.18 | 0.31 |
| 2 | 0.1 | 0.23 | 0.22 | 0.62 | 0.95 | 0.81 | 1.01 | 0.9 | 0.53 | 0.74 | 0.36 |
| 3 | 0.28 | 0.61 | 0.43 | 0.83 | 0.83 | 0.92 | 1.35 | 0.96 | 0.14 | 0.59 | 0.17 |
| 4 | 0.43 | 0.55 | 0.87 | 0.76 | 1.11 | 1.43 | 1.08 | 0.94 | 0.78 | 0.77 | 0.4 |
| 5 | 0.53 | 0.83 | 1.08 | 0.64 | 1.02 | 0.72 | 0.77 | 0.71 | 0.61 | 0.59 | 0.26 |
| 6 | 0.65 | 1.05 | 0.71 | 1.32 | 1.15 | 0.72 | 0.77 | 0.82 | 0.27 | 0.41 | 0.09 |
| 7 | 0.9 | 1.06 | 1.52 | 0.74 | 1.29 | 1.19 | 0.91 | 0.48 | 0.34 | 0.42 | 0.16 |
| 8 | 1.11 | 1 | 1.2 | 1.35 | 1.09 | 0.84 | 0.43 | 0.46 | 0.46 | 0.32 | 0.24 |
| 9 | 0.8 | 1.27 | 1.9 | 0.96 | 1.31 | 0.67 | 0.69 | 0.37 | 0.27 | 0.16 | 0.11 |
| 10 | 1.17 | 1.15 | 1.84 | 1.66 | 0.97 | 0.61 | 0.48 | 0.38 | 0.29 | 0.32 | 0.23 |
| 11 | 2.26 | 1.75 | 1.67 | 1.83 | 1.22 | 1.32 | 0.59 | 0.46 | 0.26 | 0.14 | 0.33 |

13. Data temperatur pool fire alkohol untuk diameter $d = 5$ cm

| h = 10 cm | h = 5 cm | time |
|-----------|----------|------|
| 32 | 35 | 0 |
| 32 | 35 | 1 |
| 31.7 | 34.8 | 2 |
| 31.7 | 34.8 | 3 |
| 31.7 | 34.5 | 4 |
| 31.5 | 34.3 | 5 |
| 31.5 | 34.3 | 6 |
| 31.5 | 51.1 | 7 |
| 51.1 | 105.5 | 8 |
| 56.7 | 212.8 | 9 |
| 66.7 | 258.3 | 10 |
| 70 | 304.8 | 11 |
| 84.5 | 400 | 12 |
| 95.9 | 453 | 13 |
| 105.1 | 539.3 | 14 |
| 108.8 | 584.2 | 15 |
| 107.9 | 629.4 | 16 |
| 107.9 | 629.4 | 17 |
| 107.9 | 759.7 | 18 |
| 99 | 782.5 | 19 |
| 96.3 | 821.1 | 20 |
| 91.8 | 835.2 | 21 |
| 89.7 | 856.4 | 22 |
| 86.1 | 865 | 23 |
| 84.3 | 871.6 | 24 |
| 81.3 | 880.7 | 25 |
| 80 | 886.6 | 26 |
| 78.6 | 894.2 | 27 |
| 76.7 | 897.8 | 28 |
| 77.2 | 900.7 | 29 |
| 85.2 | 898.5 | 30 |
| 96.3 | 883.3 | 31 |
| 113.9 | 881.4 | 32 |
| 113.7 | 875.7 | 33 |
| 145.9 | 865 | 34 |
| 156.1 | 863 | 35 |
| 157.1 | 859.7 | 36 |
| 160 | 861.6 | 37 |
| 175.6 | 856.9 | 38 |
| 178 | 846.3 | 39 |
| 182.4 | 802.1 | 40 |
| 174.9 | 789.5 | 41 |
| 168.6 | 779.3 | 42 |
| 158.3 | 748.5 | 43 |

(Lanjutan)

| | | |
|-------|-------|----|
| 155.9 | 744.3 | 44 |
| 159 | 789.7 | 45 |
| 170.6 | 804.9 | 46 |
| 175.9 | 835 | 47 |
| 201.9 | 844.2 | 48 |
| 204.7 | 792.3 | 49 |
| 197.3 | 763.4 | 50 |
| 202.1 | 763.2 | 51 |
| 242.1 | 815.5 | 52 |
| 255.2 | 839.7 | 53 |
| 263.7 | 857.8 | 54 |
| 269.5 | 865.4 | 55 |
| 266 | 842.1 | 56 |
| 252 | 797.2 | 57 |
| 244 | 760.9 | 58 |
| 233.5 | 755.6 | 59 |
| 233.8 | 777.6 | 60 |
| 232.6 | 788.8 | 61 |
| 232.6 | 788.8 | 62 |
| 232.6 | 788.8 | 63 |
| 248 | 863 | 64 |
| 251 | 875 | 65 |
| 251.5 | 864.7 | 66 |
| 252.4 | 859.5 | 67 |
| 246.8 | 853.6 | 68 |
| 247.2 | 865.4 | 69 |
| 236.9 | 877.6 | 70 |
| 231.4 | 882.6 | 71 |
| 224.5 | 858.3 | 72 |
| 221.6 | 855.7 | 73 |
| 221.9 | 857.8 | 74 |
| 222.1 | 858.1 | 75 |
| 217.1 | 883.3 | 76 |
| 208.3 | 886.1 | 77 |
| 203.3 | 873 | 78 |
| 192.2 | 890.7 | 79 |
| 186.7 | 899 | 80 |
| 179 | 903.1 | 81 |
| 174.4 | 906.9 | 82 |
| 169.8 | 848.9 | 83 |
| 161.4 | 844.7 | 84 |
| 157.3 | 789.7 | 85 |
| 156.1 | 773.9 | 86 |
| 156.9 | 764.4 | 87 |
| 155.7 | 732.4 | 88 |
| 151.4 | 707.1 | 89 |

(Lanjutan)

| | | |
|-------|-------|-----|
| 147.1 | 676.5 | 90 |
| 144.5 | 690.4 | 91 |
| 144.5 | 701.8 | 92 |
| 144.5 | 719 | 93 |
| 143.8 | 784.6 | 94 |
| 152.3 | 801.8 | 95 |
| 158.5 | 804 | 96 |
| 188.1 | 831.5 | 97 |
| 193.2 | 831.7 | 98 |
| 188.1 | 803.7 | 99 |
| 182.4 | 758.6 | 100 |
| 176.6 | 718.6 | 101 |
| 174.2 | 741.8 | 102 |
| 170.6 | 775.1 | 103 |
| 169.8 | 763.2 | 104 |
| 165 | 759.7 | 105 |
| 158 | 729.4 | 106 |
| 155.2 | 723.6 | 107 |
| 155.2 | 723.6 | 108 |
| 155.2 | 723.6 | 109 |
| 148.5 | 712.6 | 110 |
| 146.9 | 703.6 | 111 |
| 145.2 | 694.3 | 112 |
| 142.3 | 708.9 | 113 |
| 158.3 | 763.4 | 114 |
| 199 | 790.2 | 115 |
| 205.2 | 782.3 | 116 |
| 317.9 | 812.4 | 117 |
| 337.2 | 816 | 118 |
| 341.1 | 824.9 | 119 |
| 329.6 | 776.7 | 120 |
| 336.7 | 763.9 | 121 |
| 346.4 | 776.5 | 122 |
| 341.6 | 817.1 | 123 |
| 322.7 | 814.1 | 124 |
| 311.2 | 780.2 | 125 |
| 295.5 | 770 | 126 |
| 288.3 | 777.4 | 127 |
| 272 | 711.4 | 128 |
| 268.3 | 684.7 | 129 |
| 268.8 | 650.9 | 130 |
| 260.6 | 642 | 131 |
| 263 | 651.8 | 132 |
| 254.3 | 669.3 | 133 |
| 247.7 | 686.1 | 134 |
| 233.8 | 649.7 | 135 |

(Lanjutan)

| | | |
|-------|-------|-----|
| 228 | 648.6 | 136 |
| 228 | 619.3 | 137 |
| 221.6 | 598.4 | 138 |
| 215.7 | 682.2 | 139 |
| 273 | 698.8 | 140 |
| 302.5 | 760.9 | 141 |
| 304.3 | 785.1 | 142 |
| 315.8 | 787.9 | 143 |
| 331.4 | 791.3 | 144 |
| 326.2 | 808.9 | 145 |
| 303.6 | 850.8 | 146 |
| 292.5 | 855 | 147 |
| 282.3 | 873.5 | 148 |
| 265.3 | 878.5 | 149 |
| 262.7 | 885.2 | 150 |
| 260 | 887.1 | 151 |
| 251 | 819.5 | 152 |
| 243 | 819.5 | 153 |
| 243 | 819.5 | 154 |
| 216.4 | 667.5 | 155 |
| 211.4 | 634.6 | 156 |
| 202.8 | 595.7 | 157 |
| 197.3 | 580.8 | 158 |
| 191.5 | 560 | 159 |
| 185 | 609.6 | 160 |
| 181.9 | 652.7 | 161 |
| 172.7 | 645.6 | 162 |
| 168.9 | 642.5 | 163 |
| 162.6 | 620.6 | 164 |
| 160 | 633 | 165 |
| 153.5 | 636.1 | 166 |
| 154 | 667.7 | 167 |
| 167.2 | 727.8 | 168 |
| 183.6 | 707.3 | 169 |
| 190.1 | 675.9 | 170 |
| 193 | 660.9 | 171 |
| 189.8 | 645.4 | 172 |
| 201.6 | 703.6 | 173 |
| 210 | 745.7 | 174 |
| 206.9 | 820 | 175 |
| 225.9 | 841.8 | 176 |
| 232.1 | 856.4 | 177 |
| 232.1 | 863 | 178 |
| 233.3 | 830.5 | 179 |
| 227.3 | 790 | 180 |

14. Data temperatur pool fire alkohol dengan diameter $d = 8$ cm

| h = 10 cm | h = 5 cm | time |
|-----------|----------|------|
| 30.5 | 31.2 | 0 |
| 30.1 | 31.2 | 1 |
| 30.1 | 31 | 2 |
| 30.1 | 31 | 3 |
| 30.1 | 31 | 4 |
| 30.1 | 32 | 5 |
| 51.1 | 130.8 | 6 |
| 123.2 | 179 | 7 |
| 180.7 | 231.1 | 8 |
| 189.3 | 238.8 | 9 |
| 225 | 321.8 | 10 |
| 280.6 | 358.6 | 11 |
| 302 | 417.7 | 12 |
| 350.3 | 407.7 | 13 |
| 388.8 | 419 | 14 |
| 462.2 | 509.2 | 15 |
| 486.2 | 505.8 | 16 |
| 520.2 | 515.2 | 17 |
| 502 | 474.8 | 18 |
| 506.2 | 546.5 | 19 |
| 497 | 546.5 | 20 |
| 499.1 | 512.3 | 21 |
| 499.3 | 551.6 | 22 |
| 514.3 | 551.6 | 23 |
| 514.3 | 551.6 | 24 |
| 558.2 | 635 | 25 |
| 580 | 653.6 | 26 |
| 609.2 | 654.5 | 27 |
| 594.3 | 626.9 | 28 |
| 579.5 | 587.6 | 29 |
| 555.5 | 563.8 | 30 |
| 531.2 | 529.8 | 31 |
| 524 | 516.6 | 32 |
| 528.7 | 543.5 | 33 |
| 532.1 | 577.3 | 34 |
| 523.3 | 574.8 | 35 |
| 487.8 | 557.5 | 36 |
| 472.1 | 557.7 | 37 |
| 451.4 | 610.3 | 38 |
| 447.6 | 634.8 | 39 |
| 444 | 609.6 | 40 |
| 442.4 | 594.1 | 41 |
| 455.2 | 547.6 | 42 |
| 459.3 | 545.6 | 43 |

(Lanjutan)

| | | |
|-------|-------|----|
| 468.5 | 546.9 | 44 |
| 476.8 | 502.9 | 45 |
| 467.1 | 481.7 | 46 |
| 449.8 | 450.3 | 47 |
| 438.8 | 437.9 | 48 |
| 426.3 | 408.4 | 49 |
| 427 | 403.8 | 50 |
| 439.5 | 396.3 | 51 |
| 463.1 | 396.8 | 52 |
| 459.3 | 389.5 | 53 |
| 446.5 | 392.9 | 54 |
| 452.5 | 384.7 | 55 |
| 469.2 | 399.5 | 56 |
| 473.7 | 390 | 57 |
| 504.4 | 463.1 | 58 |
| 505.3 | 471.4 | 59 |
| 496.4 | 452.8 | 60 |
| 496.1 | 468.3 | 61 |
| 517 | 475 | 62 |
| 492.3 | 435.2 | 63 |
| 504 | 457 | 64 |
| 504 | 456.4 | 65 |
| 500.4 | 437.2 | 66 |
| 488.3 | 408.8 | 67 |
| 475.2 | 397.7 | 68 |
| 475.2 | 397.7 | 69 |
| 475.2 | 397.7 | 70 |
| 452.1 | 416.5 | 71 |
| 467.4 | 413.4 | 72 |
| 474.6 | 400.6 | 73 |
| 453.2 | 411.8 | 74 |
| 443.8 | 413.6 | 75 |
| 451.9 | 400.9 | 76 |
| 437.5 | 382 | 77 |
| 437.7 | 358.3 | 78 |
| 445.6 | 345.9 | 79 |
| 457 | 318.6 | 80 |
| 467.8 | 310.8 | 81 |
| 467.6 | 314.7 | 82 |
| 468.7 | 333.1 | 83 |
| 473.2 | 354.2 | 84 |
| 456.6 | 386.1 | 85 |
| 458.2 | 435 | 86 |
| 453.2 | 434.5 | 87 |
| 425.4 | 415.2 | 88 |
| 408.1 | 410.4 | 89 |

(Lanjutan)

| | | |
|-------|-------|-----|
| 422.5 | 415.4 | 90 |
| 440.2 | 414 | 91 |
| 431.3 | 383.8 | 92 |
| 420 | 368.6 | 93 |
| 413.8 | 355.6 | 94 |
| 437.2 | 348.7 | 95 |
| 442 | 336 | 96 |
| 439.7 | 324.3 | 97 |
| 436.3 | 325 | 98 |
| 434.3 | 320.2 | 99 |
| 441.5 | 331.7 | 100 |
| 466.9 | 351.2 | 101 |
| 470.1 | 343.4 | 102 |
| 471.4 | 324.1 | 103 |
| 456.8 | 316.5 | 104 |
| 444.7 | 300 | 105 |
| 433.8 | 304.1 | 106 |
| 424.3 | 314.9 | 107 |
| 426.3 | 331.7 | 108 |
| 423.1 | 330.3 | 109 |
| 429.5 | 325.5 | 110 |
| 423.4 | 320 | 111 |
| 416.8 | 315.1 | 112 |
| 402.5 | 313.3 | 113 |
| 407.9 | 322.2 | 114 |
| 407.9 | 322.2 | 115 |
| 407.9 | 313.7 | 116 |
| 401.5 | 305.5 | 117 |
| 393.6 | 310.3 | 118 |
| 407.7 | 358.8 | 119 |
| 428.8 | 366.1 | 120 |
| 437.9 | 357.4 | 121 |
| 436.5 | 357.9 | 122 |
| 435.9 | 417.2 | 123 |
| 467.1 | 437.2 | 124 |
| 474.1 | 422.2 | 125 |
| 486 | 416.1 | 126 |
| 480.2 | 418.4 | 127 |
| 456.1 | 387 | 128 |
| 449.4 | 371.3 | 129 |
| 447.8 | 360 | 130 |
| 462.4 | 373.8 | 131 |
| 469.8 | 367 | 132 |
| 470.1 | 358.1 | 133 |
| 480.2 | 398.8 | 134 |
| 501.5 | 414.7 | 135 |

(Lanjutan)

| | | |
|-------|-------|-----|
| 507.1 | 437.5 | 136 |
| 511 | 493.9 | 137 |
| 519.5 | 524.4 | 138 |
| 555.9 | 584.4 | 139 |
| 564.9 | 599.3 | 140 |
| 572.8 | 563.1 | 141 |
| 561.1 | 559.5 | 142 |
| 562.2 | 564.4 | 143 |
| 551 | 572.5 | 144 |
| 563.8 | 595 | 145 |
| 574.8 | 607.6 | 146 |
| 556.1 | 573.7 | 147 |
| 523.8 | 526 | 148 |
| 515 | 513.9 | 149 |
| 510.3 | 478.6 | 150 |
| 506.9 | 460.8 | 151 |
| 494.6 | 466 | 152 |
| 504.4 | 471.4 | 153 |
| 513.7 | 488.7 | 154 |
| 531.6 | 512.1 | 155 |
| 520.6 | 482.6 | 156 |
| 514.1 | 448.5 | 157 |
| 530.1 | 486.7 | 158 |
| 550.1 | 556.1 | 159 |
| 577.9 | 556.1 | 160 |
| 577.9 | 556.1 | 161 |
| 608.5 | 672.2 | 162 |
| 589.2 | 675.2 | 163 |
| 571 | 669.7 | 164 |
| 567.8 | 677 | 165 |
| 559.5 | 710.8 | 166 |
| 555.2 | 716 | 167 |
| 544.4 | 708.2 | 168 |
| 539.3 | 722.5 | 169 |
| 525.1 | 708.7 | 170 |
| 517 | 711.2 | 171 |
| 520.8 | 724.8 | 172 |
| 532.5 | 740.6 | 173 |
| 541.7 | 733.5 | 174 |
| 524.9 | 690.9 | 175 |
| 524.4 | 665.2 | 176 |
| 540.6 | 634.6 | 177 |
| 542.2 | 640.2 | 178 |
| 544.4 | 603.8 | 179 |
| 533.2 | 607.6 | 180 |

15. Data temperatur pemadaman pool fire alkohol $d = 5$ cm pada tekanan 7 bar, sudut nossel 30° , bukaan nossel 540° , ketinggian nossel 0 cm

| h = 10 cm | h = 5 cm | time |
|-----------|----------|------|
| 30.8 | 29.1 | 0 |
| 30.8 | 29.1 | 1 |
| 30.5 | 28.9 | 2 |
| 30.5 | 28.9 | 3 |
| 30.3 | 28.9 | 4 |
| 30.3 | 28.9 | 5 |
| 30.3 | 36.4 | 6 |
| 44.6 | 77.4 | 7 |
| 53.9 | 131.5 | 8 |
| 62 | 150.2 | 9 |
| 65.3 | 188.1 | 10 |
| 71.8 | 208.5 | 11 |
| 74.1 | 232.3 | 12 |
| 77.3 | 274.1 | 13 |
| 88.6 | 328.9 | 14 |
| 96.1 | 381.5 | 15 |
| 119.7 | 480.2 | 16 |
| 152.3 | 541.5 | 17 |
| 155.4 | 598.4 | 18 |
| 159.7 | 655.2 | 19 |
| 186.9 | 696.1 | 20 |
| 198.7 | 761.3 | 21 |
| 196.1 | 783 | 22 |
| 193.9 | 783.4 | 23 |
| 182.8 | 777.2 | 24 |
| 181.4 | 783.7 | 25 |
| 135.2 | 768.1 | 26 |
| 71.6 | 710.1 | 27 |
| 50.4 | 604 | 28 |
| 36 | 568 | 29 |
| 33.4 | 504 | 30 |
| 31.7 | 483.1 | 31 |
| 31.5 | 463.5 | 32 |
| 30.8 | 430 | 33 |
| 30.5 | 413.8 | 34 |
| 30.1 | 383.8 | 35 |
| 29.8 | 372.5 | 36 |
| 29.4 | 351 | 37 |
| 28.9 | 340 | 38 |
| 28.7 | 321.3 | 39 |
| 28.4 | 311.7 | 40 |
| 28.4 | 302.5 | 41 |
| 28.2 | 286 | 42 |

(Lanjutan)

| | | |
|------|-------|----|
| 28.2 | 286 | 43 |
| 28.2 | 286 | 44 |
| 28 | 256 | 45 |
| 27.7 | 242.1 | 46 |
| 27.7 | 235.9 | 47 |
| 27.5 | 224.7 | 48 |
| 27.5 | 219.2 | 49 |
| 27.2 | 213.8 | 50 |
| 27.2 | 203 | 51 |
| 27.2 | 198.3 | 52 |
| 27 | 189.1 | 53 |
| 27 | 184.8 | 54 |
| 26.8 | 176.6 | 55 |
| 26.8 | 172.7 | 56 |
| 26.5 | 165.3 | 57 |
| 26.5 | 161.9 | 58 |
| 26.5 | 158.3 | 59 |
| 26.3 | 151.6 | 60 |
| 26.3 | 148.3 | 61 |
| 26.3 | 142.1 | 62 |
| 26.3 | 139.2 | 63 |
| 26.1 | 133.6 | 64 |
| 26.1 | 131 | 65 |
| 26.1 | 125.8 | 66 |
| 25.8 | 123.5 | 67 |
| 25.8 | 118.6 | 68 |
| 25.8 | 116.2 | 69 |
| 25.8 | 113.9 | 70 |
| 25.8 | 109 | 71 |
| 26.1 | 106.7 | 72 |
| 26.1 | 102.3 | 73 |
| 26.1 | 100.4 | 74 |
| 26.1 | 97 | 75 |
| 26.3 | 95.4 | 76 |
| 26.3 | 92.5 | 77 |
| 26.3 | 90.9 | 78 |
| 26.3 | 89.5 | 79 |
| 26.1 | 86.8 | 80 |
| 26.1 | 85.2 | 81 |
| 26.1 | 82.7 | 82 |
| 26.1 | 81.3 | 83 |
| 26.1 | 79 | 84 |
| 26.1 | 77.9 | 85 |
| 26.1 | 75.5 | 86 |
| 26.1 | 74.4 | 87 |
| 26.1 | 73.4 | 88 |

(Lanjutan)

| | | |
|------|------|-----|
| 26.1 | 73.4 | 89 |
| 26.1 | 73.4 | 90 |
| 25.8 | 68.8 | 91 |
| 25.6 | 68.1 | 92 |
| 25.6 | 66.2 | 93 |
| 25.6 | 65.5 | 94 |
| 25.6 | 63.9 | 95 |
| 25.6 | 63.2 | 96 |
| 25.4 | 61.8 | 97 |
| 25.4 | 61.1 | 98 |
| 25.4 | 60.4 | 99 |
| 25.1 | 59.3 | 100 |
| 25.4 | 58.6 | 101 |
| 25.1 | 57.4 | 102 |
| 25.1 | 56.7 | 103 |
| 25.1 | 55.5 | 104 |
| 25.1 | 55.1 | 105 |
| 25.1 | 53.9 | 106 |
| 25.1 | 53.4 | 107 |
| 25.1 | 52.7 | 108 |
| 24.9 | 51.8 | 109 |
| 25.1 | 51.3 | 110 |
| 24.9 | 50.4 | 111 |
| 24.9 | 50 | 112 |
| 24.9 | 49 | 113 |
| 24.9 | 48.6 | 114 |
| 24.9 | 47.6 | 115 |
| 24.9 | 47.4 | 116 |
| 24.9 | 46.9 | 117 |
| 24.9 | 46.2 | 118 |
| 24.9 | 45.8 | 119 |
| 24.9 | 45.1 | 120 |
| 24.9 | 44.6 | 121 |
| 25.1 | 43.9 | 122 |
| 25.1 | 43.4 | 123 |
| 25.4 | 42.7 | 124 |
| 25.8 | 42.5 | 125 |
| 25.8 | 42.3 | 126 |
| 26.1 | 41.6 | 127 |
| 26.1 | 41.1 | 128 |
| 26.3 | 40.6 | 129 |
| 26.3 | 40.4 | 130 |
| 26.3 | 40 | 131 |
| 26.3 | 39.7 | 132 |
| 26.3 | 39.2 | 133 |
| 26.3 | 39.2 | 134 |

16. Data temperatur pemadaman pool fire alkohol $d = 5$ cm pada tekanan 7 bar, sudut nosel 30° , bukaan nosel 540° , ketinggian nosel 2 cm

| h = 10 cm | h = 5 cm | time |
|-----------|----------|------|
| 35.2 | 39.7 | 0 |
| 35 | 39.2 | 1 |
| 34.8 | 39 | 2 |
| 34.8 | 38.5 | 3 |
| 34.5 | 38.5 | 4 |
| 34.3 | 38.1 | 5 |
| 40.4 | 80.4 | 6 |
| 48.8 | 114.4 | 7 |
| 69.5 | 185.3 | 8 |
| 80.9 | 215.7 | 9 |
| 94.5 | 260.6 | 10 |
| 97 | 280.4 | 11 |
| 98.6 | 338.1 | 12 |
| 102.7 | 371.8 | 13 |
| 109.3 | 451.2 | 14 |
| 119.3 | 486.4 | 15 |
| 130.1 | 503.3 | 16 |
| 142.3 | 549.8 | 17 |
| 171 | 611.4 | 18 |
| 179.5 | 639.3 | 19 |
| 182.8 | 675.4 | 20 |
| 184 | 688.8 | 21 |
| 200 | 747.5 | 22 |
| 215.9 | 769.3 | 23 |
| 226.9 | 803.5 | 24 |
| 228.5 | 818.3 | 25 |
| 176.6 | 766.7 | 26 |
| 57.9 | 651.3 | 27 |
| 44.8 | 606.9 | 28 |
| 38.1 | 544 | 29 |
| 37.1 | 520.8 | 30 |
| 36.2 | 478.8 | 31 |
| 34.8 | 459.3 | 32 |
| 34.3 | 440.6 | 33 |
| 34.3 | 440.6 | 34 |
| 34.3 | 440.6 | 35 |
| 32 | 370.6 | 36 |
| 31.7 | 357.7 | 37 |

(Lanjutan)

| | | |
|------|-------|----|
| 31 | 335.8 | 38 |
| 30.8 | 325.7 | 39 |
| 30.3 | 308.5 | 40 |
| 29.8 | 300.4 | 41 |
| 29.6 | 284.8 | 42 |
| 29.4 | 276.9 | 43 |
| 29.1 | 269.3 | 44 |
| 28.9 | 254.3 | 45 |
| 28.7 | 247.2 | 46 |
| 28.4 | 234.5 | 47 |
| 28.2 | 228.3 | 48 |
| 28.2 | 216.6 | 49 |
| 27.7 | 211.1 | 50 |
| 27.7 | 201.4 | 51 |
| 27.5 | 197.1 | 52 |
| 27.5 | 192 | 53 |
| 27.2 | 182.8 | 54 |
| 27 | 178.5 | 55 |
| 26.8 | 170.3 | 56 |
| 26.8 | 166.2 | 57 |
| 26.8 | 158 | 58 |
| 26.8 | 154.2 | 59 |
| 26.8 | 147.6 | 60 |
| 26.8 | 144.5 | 61 |
| 26.8 | 140.7 | 62 |
| 26.8 | 133.8 | 63 |
| 26.8 | 130.5 | 64 |
| 26.8 | 124.2 | 65 |
| 26.8 | 121.4 | 66 |
| 26.8 | 116.2 | 67 |
| 26.5 | 113.9 | 68 |
| 26.5 | 109.7 | 69 |
| 26.3 | 107.6 | 70 |
| 26.3 | 105.5 | 71 |
| 26.3 | 101.6 | 72 |
| 26.1 | 100 | 73 |
| 26.1 | 96.5 | 74 |
| 26.1 | 94.7 | 75 |
| 25.8 | 91.5 | 76 |
| 25.8 | 90 | 77 |
| 25.8 | 87 | 78 |

(Lanjutan)

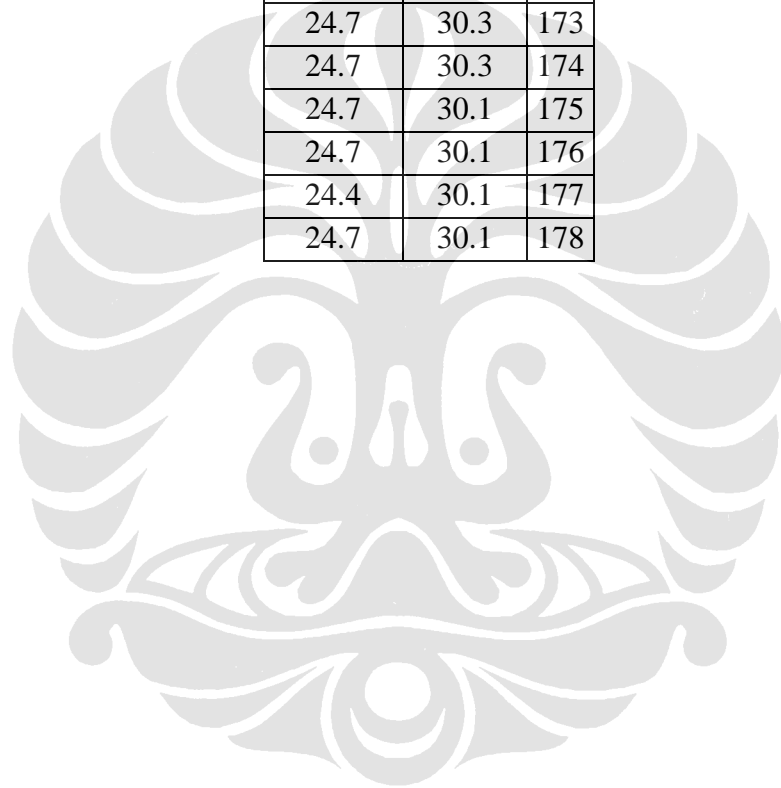
| | | |
|------|------|-----|
| 25.8 | 87 | 79 |
| 25.8 | 87 | 80 |
| 25.6 | 81.8 | 81 |
| 25.6 | 80.2 | 82 |
| 25.4 | 77.4 | 83 |
| 25.4 | 76 | 84 |
| 25.4 | 73.7 | 85 |
| 25.4 | 72.5 | 86 |
| 25.1 | 70.2 | 87 |
| 25.1 | 69.3 | 88 |
| 25.1 | 67.4 | 89 |
| 25.1 | 66.2 | 90 |
| 25.1 | 65.3 | 91 |
| 24.9 | 63.2 | 92 |
| 24.9 | 62.5 | 93 |
| 25.1 | 60.9 | 94 |
| 24.9 | 60 | 95 |
| 24.9 | 58.8 | 96 |
| 24.9 | 58.1 | 97 |
| 24.9 | 56.9 | 98 |
| 24.9 | 56.2 | 99 |
| 24.9 | 55.8 | 100 |
| 24.7 | 54.6 | 101 |
| 24.7 | 54.1 | 102 |
| 24.7 | 53 | 103 |
| 24.7 | 52.3 | 104 |
| 24.9 | 51.1 | 105 |
| 24.9 | 50.6 | 106 |
| 24.9 | 49.5 | 107 |
| 25.1 | 48.8 | 108 |
| 25.1 | 48.3 | 109 |
| 25.1 | 47.4 | 110 |
| 25.1 | 47.2 | 111 |
| 25.1 | 46.2 | 112 |
| 25.1 | 45.8 | 113 |
| 25.1 | 45.1 | 114 |
| 25.1 | 44.6 | 115 |
| 25.1 | 43.9 | 116 |
| 25.1 | 43.7 | 117 |
| 25.1 | 43.2 | 118 |
| 25.1 | 42.5 | 119 |

(Lanjutan)

| | | |
|------|------|-----|
| 24.9 | 42.3 | 120 |
| 24.9 | 41.6 | 121 |
| 24.9 | 41.3 | 122 |
| 24.9 | 40.6 | 123 |
| 24.9 | 40.4 | 124 |
| 24.9 | 40.4 | 125 |
| 24.9 | 40.4 | 126 |
| 24.9 | 39.2 | 127 |
| 24.7 | 39 | 128 |
| 24.7 | 38.8 | 129 |
| 24.7 | 38.3 | 130 |
| 24.7 | 38.1 | 131 |
| 24.7 | 37.6 | 132 |
| 24.7 | 37.6 | 133 |
| 24.7 | 37.1 | 134 |
| 24.7 | 36.9 | 135 |
| 24.7 | 36.7 | 136 |
| 24.7 | 36.2 | 137 |
| 24.4 | 36.2 | 138 |
| 24.4 | 35.7 | 139 |
| 24.4 | 35.7 | 140 |
| 24.4 | 35.2 | 141 |
| 24.4 | 35 | 142 |
| 24.4 | 34.8 | 143 |
| 24.4 | 34.5 | 144 |
| 24.4 | 34.3 | 145 |
| 24.4 | 34.1 | 146 |
| 24.4 | 33.8 | 147 |
| 24.4 | 33.6 | 148 |
| 24.4 | 33.6 | 149 |
| 24.4 | 33.4 | 150 |
| 24.4 | 33.1 | 151 |
| 24.4 | 32.9 | 152 |
| 24.7 | 32.9 | 153 |
| 24.7 | 32.7 | 154 |
| 24.7 | 32.4 | 155 |
| 24.9 | 32.4 | 156 |
| 24.9 | 32.4 | 157 |
| 24.9 | 32.2 | 158 |
| 24.9 | 32 | 159 |
| 24.9 | 32 | 160 |

(Lanjutan)

| | | |
|------|------|-----|
| 24.9 | 31.7 | 161 |
| 24.9 | 31.5 | 162 |
| 24.7 | 31.5 | 163 |
| 24.7 | 31.2 | 164 |
| 24.7 | 31.2 | 165 |
| 24.7 | 31 | 166 |
| 24.7 | 31 | 167 |
| 24.7 | 30.8 | 168 |
| 24.7 | 30.8 | 169 |
| 24.7 | 30.8 | 170 |
| 24.7 | 30.8 | 171 |
| 24.7 | 30.5 | 172 |
| 24.7 | 30.3 | 173 |
| 24.7 | 30.3 | 174 |
| 24.7 | 30.1 | 175 |
| 24.7 | 30.1 | 176 |
| 24.4 | 30.1 | 177 |
| 24.7 | 30.1 | 178 |



17. Data temperatur pemataman pool fire alkohol $d = 5$ cm pada tekanan 7 bar, sudut nossel 30° , bukaan nossel 540° , ketinggian nossel 4 cm

| h = 10 cm | h = 5 cm | time |
|-----------|----------|------|
| 26.8 | 25.8 | 0 |
| 27 | 25.8 | 1 |
| 27 | 25.8 | 2 |
| 27 | 26.1 | 3 |
| 27 | 26.1 | 4 |
| 27 | 26.1 | 5 |
| 35 | 53.7 | 6 |
| 39.7 | 66.7 | 7 |
| 47.6 | 97.7 | 8 |
| 56.5 | 113.2 | 9 |
| 59.7 | 126.5 | 10 |
| 60.9 | 181.2 | 11 |
| 66.7 | 202.8 | 12 |
| 67.2 | 264.8 | 13 |
| 70.2 | 301.6 | 14 |
| 89.3 | 381.1 | 15 |
| 97.5 | 429 | 16 |
| 107.9 | 479.1 | 17 |
| 126.8 | 509.6 | 18 |
| 141.9 | 571.4 | 19 |
| 158 | 611 | 20 |
| 201.9 | 685.6 | 21 |
| 210.7 | 732.8 | 22 |
| 212.8 | 760 | 23 |
| 218 | 805.1 | 24 |
| 221.4 | 802.5 | 25 |
| 180 | 749.8 | 26 |
| 124.9 | 704.1 | 27 |
| 124.9 | 704.1 | 28 |
| 42.7 | 546.9 | 29 |
| 40.9 | 520 | 30 |
| 38.5 | 473.2 | 31 |
| 37.6 | 453.9 | 32 |
| 36.7 | 420.6 | 33 |
| 35 | 406.8 | 34 |
| 34.3 | 393.8 | 35 |
| 33.1 | 369.7 | 36 |
| 32.7 | 357.9 | 37 |

(Lanjutan)

| | | |
|------|-------|----|
| 31.7 | 336.7 | 38 |
| 31.2 | 327.3 | 39 |
| 30.5 | 309.8 | 40 |
| 30.1 | 301.3 | 41 |
| 29.8 | 285.1 | 42 |
| 29.4 | 277.9 | 43 |
| 29.1 | 271.1 | 44 |
| 28.7 | 258.3 | 45 |
| 28.4 | 251.7 | 46 |
| 28.2 | 240 | 47 |
| 28 | 234 | 48 |
| 27.7 | 222.3 | 49 |
| 27.5 | 216.6 | 50 |
| 27.2 | 206.4 | 51 |
| 27 | 201.1 | 52 |
| 27 | 191.5 | 53 |
| 26.8 | 186.9 | 54 |
| 26.5 | 182.4 | 55 |
| 26.3 | 173.7 | 56 |
| 26.3 | 169.8 | 57 |
| 26.1 | 161.4 | 58 |
| 25.8 | 158 | 59 |
| 25.8 | 150.7 | 60 |
| 25.6 | 146.9 | 61 |
| 25.6 | 140.4 | 62 |
| 25.4 | 137.6 | 63 |
| 25.4 | 134.3 | 64 |
| 25.4 | 128.4 | 65 |
| 25.4 | 125.4 | 66 |
| 25.4 | 119.5 | 67 |
| 25.4 | 116.5 | 68 |
| 25.1 | 111.6 | 69 |
| 25.1 | 109.5 | 70 |
| 25.1 | 106 | 71 |
| 25.1 | 104.1 | 72 |
| 25.1 | 104.1 | 73 |
| 25.1 | 104.1 | 74 |
| 24.9 | 98.1 | 75 |
| 24.9 | 95.2 | 76 |
| 24.9 | 93.6 | 77 |
| 24.9 | 90.6 | 78 |

(Lanjutan)

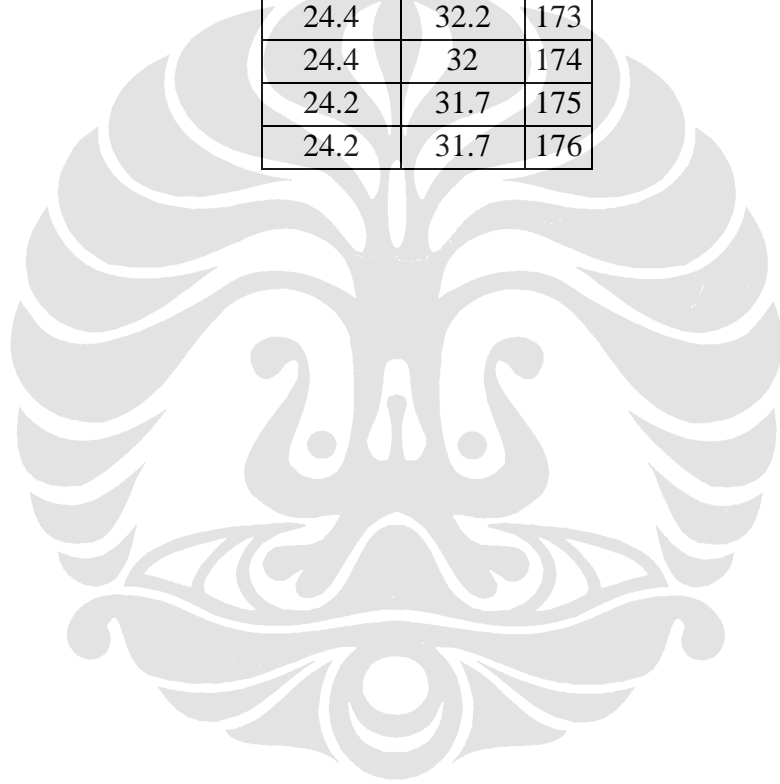
| | | |
|------|------|-----|
| 24.9 | 89.3 | 79 |
| 24.9 | 86.8 | 80 |
| 24.7 | 85.4 | 81 |
| 24.7 | 82.9 | 82 |
| 24.7 | 81.8 | 83 |
| 24.7 | 80.4 | 84 |
| 24.7 | 78.1 | 85 |
| 24.7 | 76.9 | 86 |
| 24.7 | 74.8 | 87 |
| 24.7 | 73.9 | 88 |
| 24.4 | 72.3 | 89 |
| 24.4 | 71.3 | 90 |
| 24.4 | 69.5 | 91 |
| 24.4 | 68.6 | 92 |
| 24.4 | 67.6 | 93 |
| 24.4 | 66 | 94 |
| 24.4 | 65.3 | 95 |
| 24.4 | 63.7 | 96 |
| 24.4 | 63 | 97 |
| 24.4 | 61.6 | 98 |
| 24.4 | 60.9 | 99 |
| 24.4 | 59.5 | 100 |
| 24.4 | 59 | 101 |
| 24.4 | 58.3 | 102 |
| 24.4 | 57.2 | 103 |
| 24.4 | 56.5 | 104 |
| 24.4 | 55.5 | 105 |
| 24.4 | 55.1 | 106 |
| 24.4 | 53.9 | 107 |
| 24.2 | 53.4 | 108 |
| 24.2 | 52.5 | 109 |
| 24.2 | 52 | 110 |
| 24.2 | 51.6 | 111 |
| 24.2 | 50.9 | 112 |
| 24.2 | 50.4 | 113 |
| 24.2 | 49.7 | 114 |
| 24.2 | 49.3 | 115 |
| 24.2 | 48.3 | 116 |
| 24.2 | 47.9 | 117 |
| 24.2 | 47.4 | 118 |
| 24.2 | 47.4 | 119 |

(Lanjutan)

| | | |
|------|------|-----|
| 24.2 | 47.4 | 120 |
| 24.2 | 45.3 | 121 |
| 24.2 | 45.1 | 122 |
| 24.2 | 44.4 | 123 |
| 24.4 | 43.9 | 124 |
| 24.2 | 43.4 | 125 |
| 24.4 | 43 | 126 |
| 24.4 | 42.3 | 127 |
| 24.7 | 42 | 128 |
| 24.7 | 41.6 | 129 |
| 24.9 | 41.3 | 130 |
| 24.7 | 41.1 | 131 |
| 24.7 | 40.4 | 132 |
| 24.7 | 40.2 | 133 |
| 24.9 | 39.7 | 134 |
| 24.7 | 39.5 | 135 |
| 24.7 | 39 | 136 |
| 24.7 | 38.8 | 137 |
| 24.7 | 38.5 | 138 |
| 24.7 | 38.3 | 139 |
| 24.7 | 38.1 | 140 |
| 24.4 | 37.6 | 141 |
| 24.7 | 37.4 | 142 |
| 24.7 | 37.1 | 143 |
| 24.4 | 36.9 | 144 |
| 24.4 | 36.7 | 145 |
| 24.4 | 36.4 | 146 |
| 24.4 | 36.2 | 147 |
| 24.4 | 36 | 148 |
| 24.4 | 36 | 149 |
| 24.4 | 35.5 | 150 |
| 24.4 | 35.5 | 151 |
| 24.4 | 35.2 | 152 |
| 24.4 | 35 | 153 |
| 24.4 | 34.8 | 154 |
| 24.4 | 34.8 | 155 |
| 24.4 | 34.5 | 156 |
| 24.4 | 34.3 | 157 |
| 24.4 | 34.3 | 158 |
| 24.4 | 34.1 | 159 |
| 24.4 | 34.1 | 160 |

(Lanjutan)

| | | |
|------|------|-----|
| 24.4 | 33.8 | 161 |
| 24.4 | 33.6 | 162 |
| 24.4 | 33.4 | 163 |
| 24.4 | 33.4 | 164 |
| 24.4 | 33.4 | 165 |
| 24.4 | 33.1 | 166 |
| 24.4 | 32.9 | 167 |
| 24.4 | 32.7 | 168 |
| 24.4 | 32.7 | 169 |
| 24.4 | 32.4 | 170 |
| 24.4 | 32.4 | 171 |
| 24.4 | 32.2 | 172 |
| 24.4 | 32.2 | 173 |
| 24.4 | 32 | 174 |
| 24.2 | 31.7 | 175 |
| 24.2 | 31.7 | 176 |



18. Data temperatur pemadaman pool fire alkohol $d = 8$ cm pada tekanan 7 bar, sudut nosel 30° , bukaan nosel 540° , ketinggian nosel 0 cm

| h = 10 cm | h = 5 cm | time |
|-----------|----------|------|
| 38.5 | 45.3 | 0 |
| 38.1 | 44.8 | 1 |
| 37.8 | 44.4 | 2 |
| 37.6 | 43.9 | 3 |
| 37.4 | 43.4 | 4 |
| 37.1 | 43 | 5 |
| 40.4 | 59.5 | 6 |
| 66.2 | 196.3 | 7 |
| 119.7 | 237.3 | 8 |
| 140.9 | 274.4 | 9 |
| 159.7 | 305.9 | 10 |
| 159.7 | 305.9 | 11 |
| 228.5 | 427.9 | 12 |
| 242.3 | 446.9 | 13 |
| 258.8 | 489.4 | 14 |
| 270.2 | 511.6 | 15 |
| 285.3 | 559.1 | 16 |
| 324.5 | 576.4 | 17 |
| 337.9 | 625.3 | 18 |
| 403.6 | 674.5 | 19 |
| 423.8 | 687 | 20 |
| 429.3 | 690 | 21 |
| 448.7 | 680.9 | 22 |
| 452.1 | 686.5 | 23 |
| 452.1 | 710.8 | 24 |
| 460.2 | 720.2 | 25 |
| 459.1 | 672.9 | 26 |
| 395.2 | 624 | 27 |
| 362.7 | 576.8 | 28 |
| 314.4 | 501.3 | 29 |
| 293 | 473.9 | 30 |
| 270.9 | 434.5 | 31 |
| 262.5 | 417.2 | 32 |
| 252.9 | 388.4 | 33 |
| 237.1 | 375 | 34 |
| 229.7 | 362 | 35 |
| 216.6 | 339.5 | 36 |

(Lanjutan)

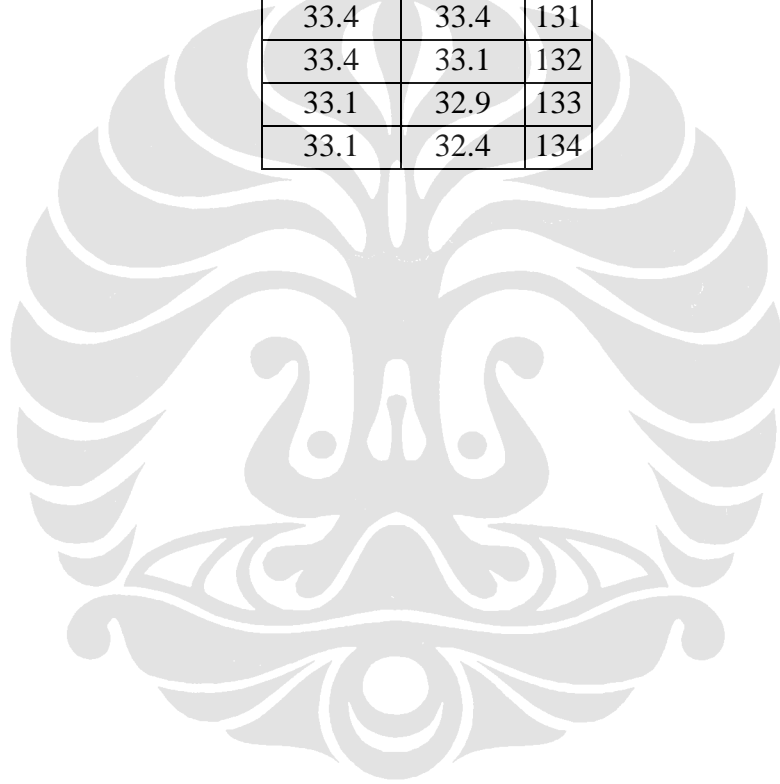
| | | |
|-------|-------|----|
| 210.2 | 328.9 | 37 |
| 199.7 | 310.5 | 38 |
| 194.4 | 302.5 | 39 |
| 185 | 286.7 | 40 |
| 181.4 | 280.4 | 41 |
| 177.8 | 266.2 | 42 |
| 169.8 | 259.5 | 43 |
| 165.3 | 252 | 44 |
| 156.6 | 239.2 | 45 |
| 152.6 | 233.3 | 46 |
| 146.4 | 222.3 | 47 |
| 143 | 216.9 | 48 |
| 136.4 | 205.2 | 49 |
| 133.4 | 200 | 50 |
| 130.5 | 190.3 | 51 |
| 125.1 | 186.2 | 52 |
| 122.5 | 181.9 | 53 |
| 118.1 | 173.4 | 54 |
| 118.1 | 173.4 | 55 |
| 118.1 | 173.4 | 56 |
| 108.6 | 156.6 | 57 |
| 104.1 | 149 | 58 |
| 101.8 | 145.2 | 59 |
| 99.5 | 138.5 | 60 |
| 95 | 135.2 | 61 |
| 93.1 | 128.9 | 62 |
| 90 | 125.8 | 63 |
| 88.4 | 123 | 64 |
| 84.7 | 117.6 | 65 |
| 83.1 | 115.1 | 66 |
| 80.2 | 110.2 | 67 |
| 78.8 | 108.1 | 68 |
| 77.6 | 103.9 | 69 |
| 75.5 | 101.8 | 70 |
| 74.4 | 97.9 | 71 |
| 72.3 | 96.3 | 72 |
| 71.1 | 94.5 | 73 |
| 69 | 90.9 | 74 |
| 67.9 | 89.3 | 75 |
| 66 | 86.1 | 76 |
| 65.1 | 84.5 | 77 |

(Lanjutan)

| | | |
|------|------|-----|
| 64.1 | 81.3 | 78 |
| 62.3 | 80 | 79 |
| 61.6 | 77.2 | 80 |
| 60 | 75.8 | 81 |
| 59.3 | 74.6 | 82 |
| 57.4 | 72.3 | 83 |
| 56.7 | 71.1 | 84 |
| 55.1 | 68.8 | 85 |
| 54.4 | 67.9 | 86 |
| 53.9 | 66.2 | 87 |
| 52.7 | 65.3 | 88 |
| 52 | 63.4 | 89 |
| 50.9 | 62.5 | 90 |
| 50.2 | 61.8 | 91 |
| 49 | 60 | 92 |
| 48.6 | 59.5 | 93 |
| 47.6 | 57.9 | 94 |
| 46.9 | 57.2 | 95 |
| 46.7 | 55.8 | 96 |
| 45.8 | 55.1 | 97 |
| 45.1 | 53.7 | 98 |
| 44.4 | 53 | 99 |
| 43.9 | 52.3 | 100 |
| 43.9 | 52.3 | 101 |
| 43.9 | 52.3 | 102 |
| 42.3 | 50 | 103 |
| 41.8 | 49.5 | 104 |
| 41.1 | 48.6 | 105 |
| 40.9 | 48.1 | 106 |
| 40.6 | 47.2 | 107 |
| 40 | 46.7 | 108 |
| 39.7 | 45.8 | 109 |
| 39 | 45.3 | 110 |
| 38.8 | 44.6 | 111 |
| 38.1 | 43.2 | 112 |
| 37.8 | 43 | 113 |
| 37.6 | 42.5 | 114 |
| 37.4 | 42 | 115 |
| 37.1 | 41.1 | 116 |
| 36.7 | 40.9 | 117 |
| 36.4 | 40.2 | 118 |

(Lanjutan)

| | | |
|------|------|-----|
| 36.2 | 40 | 119 |
| 36 | 39.5 | 120 |
| 35.7 | 38.5 | 121 |
| 35.7 | 37.6 | 122 |
| 35.2 | 35.7 | 123 |
| 35.2 | 35.2 | 124 |
| 35 | 34.5 | 125 |
| 34.8 | 34.3 | 126 |
| 34.5 | 34.1 | 127 |
| 34.1 | 33.8 | 128 |
| 34.1 | 33.8 | 129 |
| 33.6 | 33.4 | 130 |
| 33.4 | 33.4 | 131 |
| 33.4 | 33.1 | 132 |
| 33.1 | 32.9 | 133 |
| 33.1 | 32.4 | 134 |



19. Data temperatur pemadaman pool fire alkohol $d = 8$ cm pada tekanan 7 bar, sudut nosel 30° , bukaan nosel 540° , ketinggian nosel 2 cm

| h = 10 cm | h = 5 cm | time |
|-----------|----------|------|
| 27.7 | 27.7 | 0 |
| 27.7 | 27.7 | 1 |
| 27.7 | 27.7 | 2 |
| 27.7 | 27.7 | 3 |
| 27.7 | 27.7 | 4 |
| 27.7 | 28 | 5 |
| 36.7 | 112.7 | 6 |
| 101.3 | 208 | 7 |
| 136.2 | 225.7 | 8 |
| 152.6 | 248.9 | 9 |
| 184.5 | 309.1 | 10 |
| 193.7 | 333.7 | 11 |
| 226.4 | 404.7 | 12 |
| 284.8 | 486.5 | 13 |
| 320.4 | 523.1 | 14 |
| 340.2 | 559.5 | 15 |
| 368.6 | 603.5 | 16 |
| 378.1 | 616.8 | 17 |
| 375.4 | 620.6 | 18 |
| 396.1 | 643.1 | 19 |
| 408.4 | 662.5 | 20 |
| 429.3 | 692.9 | 21 |
| 432.7 | 693.1 | 22 |
| 467.8 | 716.5 | 23 |
| 473.7 | 710.3 | 24 |
| 466 | 703.9 | 25 |
| 455 | 682.7 | 26 |
| 426.3 | 640.9 | 27 |
| 393.6 | 597.3 | 28 |
| 339.7 | 517 | 29 |
| 310.8 | 483.5 | 30 |
| 310.8 | 483.5 | 31 |
| 310.8 | 483.5 | 32 |
| 141.6 | 369.5 | 33 |
| 102.3 | 357.9 | 34 |
| 73.4 | 326.4 | 35 |
| 51.1 | 314.2 | 36 |
| 49.3 | 303.9 | 37 |

(Lanjutan)

| | | |
|------|-------|----|
| 46.2 | 287.4 | 38 |
| 45.1 | 279.5 | 39 |
| 42.7 | 267.6 | 40 |
| 41.8 | 262.5 | 41 |
| 40.2 | 251 | 42 |
| 40 | 245.1 | 43 |
| 39.2 | 233.3 | 44 |
| 37.8 | 227.6 | 45 |
| 37.1 | 222.1 | 46 |
| 36.4 | 211.9 | 47 |
| 35.7 | 206.6 | 48 |
| 34.5 | 199 | 49 |
| 34.1 | 195.4 | 50 |
| 33.4 | 186.9 | 51 |
| 32.9 | 182.6 | 52 |
| 32.7 | 175.1 | 53 |
| 32 | 171.5 | 54 |
| 32 | 167.9 | 55 |
| 31.2 | 160.9 | 56 |
| 31 | 157.3 | 57 |
| 30.5 | 150.9 | 58 |
| 30.3 | 147.3 | 59 |
| 30.3 | 140.4 | 60 |
| 29.8 | 136.9 | 61 |
| 29.8 | 130.5 | 62 |
| 30.3 | 127.5 | 63 |
| 29.8 | 124.9 | 64 |
| 29.4 | 119.7 | 65 |
| 29.1 | 116.9 | 66 |
| 28.4 | 112 | 67 |
| 28.2 | 110 | 68 |
| 28 | 106.2 | 69 |
| 28 | 103.9 | 70 |
| 28 | 99.5 | 71 |
| 27.7 | 97.7 | 72 |
| 27.5 | 96.1 | 73 |
| 28 | 92.2 | 74 |
| 28.2 | 90.6 | 75 |
| 28.2 | 89 | 76 |
| 28.2 | 89 | 77 |
| 27.7 | 83.4 | 78 |

(Lanjutan)

| | | |
|------|------|-----|
| 28.2 | 82 | 79 |
| 28.2 | 79.3 | 80 |
| 28.4 | 77.9 | 81 |
| 28.4 | 75.1 | 82 |
| 28.4 | 73.9 | 83 |
| 28.9 | 71.6 | 84 |
| 28.7 | 70.4 | 85 |
| 28.4 | 69.5 | 86 |
| 28.4 | 67.4 | 87 |
| 28.4 | 66.2 | 88 |
| 28.2 | 64.1 | 89 |
| 28.2 | 63.2 | 90 |
| 28.4 | 61.3 | 91 |
| 29.1 | 60.4 | 92 |
| 28.9 | 59 | 93 |
| 28.4 | 58.3 | 94 |
| 28.7 | 57.4 | 95 |
| 29.4 | 56 | 96 |
| 29.6 | 55.5 | 97 |
| 30.5 | 54.1 | 98 |
| 30.5 | 53.4 | 99 |
| 30.5 | 52.3 | 100 |
| 30.3 | 51.6 | 101 |
| 30.3 | 50.4 | 102 |
| 30.1 | 50 | 103 |
| 30.1 | 49.5 | 104 |
| 30.3 | 48.6 | 105 |
| 30.3 | 48.1 | 106 |
| 29.8 | 47.2 | 107 |
| 29.8 | 46.7 | 108 |
| 29.8 | 46 | 109 |
| 30.1 | 45.5 | 110 |
| 30.3 | 44.6 | 111 |
| 30.5 | 44.4 | 112 |
| 30.5 | 43.9 | 113 |
| 30.3 | 43.4 | 114 |
| 30.8 | 43.2 | 115 |
| 30.3 | 42.5 | 116 |
| 30.3 | 42.3 | 117 |
| 30.3 | 41.6 | 118 |
| 30.1 | 41.3 | 119 |

(Lanjutan)

| | | |
|------|------|-----|
| 30.1 | 40.9 | 120 |
| 30.5 | 40.6 | 121 |
| 30.5 | 40.6 | 122 |
| 30.5 | 40.6 | 123 |
| 30.3 | 39.7 | 124 |
| 30.3 | 39.2 | 125 |
| 30.3 | 39 | 126 |
| 30.1 | 38.5 | 127 |
| 30.3 | 38.3 | 128 |
| 30.3 | 37.8 | 129 |
| 30.1 | 37.6 | 130 |
| 30.1 | 37.1 | 131 |
| 29.8 | 36.9 | 132 |
| 29.8 | 36.7 | 133 |
| 29.6 | 36.4 | 134 |
| 29.6 | 36.2 | 135 |
| 29.4 | 36 | 136 |
| 29.4 | 35.7 | 137 |
| 29.4 | 35.5 | 138 |
| 29.4 | 35.2 | 139 |
| 29.1 | 35 | 140 |
| 29.1 | 34.8 | 141 |
| 29.1 | 34.5 | 142 |
| 28.9 | 34.3 | 143 |
| 28.9 | 34.1 | 144 |
| 28.9 | 33.8 | 145 |
| 28.9 | 33.8 | 146 |
| 28.9 | 33.6 | 147 |
| 28.7 | 33.4 | 148 |
| 28.7 | 33.1 | 149 |
| 28.7 | 33.1 | 150 |
| 28.7 | 32.9 | 151 |
| 28.4 | 32.7 | 152 |
| 28.4 | 32.7 | 153 |
| 28.7 | 32.4 | 154 |
| 28.7 | 32.2 | 155 |
| 28.7 | 32.2 | 156 |
| 28.4 | 32 | 157 |
| 28.4 | 32 | 158 |
| 28.4 | 31.7 | 159 |
| 28.4 | 31.7 | 160 |

(Lanjutan)

| | | |
|------|------|-----|
| 28.4 | 32 | 161 |
| 28.4 | 31.7 | 162 |
| 28.4 | 31.7 | 163 |
| 28.4 | 31.5 | 164 |
| 28.4 | 31.5 | 165 |
| 28.2 | 31.5 | 166 |
| 28.4 | 31.2 | 167 |
| 28.4 | 31.2 | 168 |
| 28.4 | 31.2 | 169 |
| 28.2 | 30.8 | 170 |
| 28.2 | 30.8 | 171 |
| 28.2 | 30.5 | 172 |
| 28 | 30.5 | 173 |
| 28 | 30.3 | 174 |
| 28 | 30.3 | 175 |
| 28 | 30.3 | 176 |
| 28 | 30.1 | 177 |
| 28 | 30.1 | 178 |
| 27.7 | 29.8 | 179 |
| 27.7 | 29.8 | 180 |
| 27.7 | 29.8 | 181 |
| 27.7 | 29.8 | 182 |
| 27.7 | 29.6 | 183 |
| 27.7 | 29.6 | 184 |
| 27.7 | 29.4 | 185 |

20. Data temperatur pemadaman pool fire alkohol $d = 8$ cm pada tekanan 7 bar, sudut nosel 30° , bukaan nosel 540° , ketinggian nosel 4 cm

| h = 10 cm | h = 5 cm | time |
|-----------|----------|------|
| 30.1 | 32.2 | 0 |
| 30.3 | 32 | 1 |
| 29.8 | 32 | 2 |
| 29.8 | 32 | 3 |
| 29.8 | 31.7 | 4 |
| 35 | 53.4 | 5 |
| 48.8 | 80.9 | 6 |
| 56.9 | 149.7 | 7 |
| 78.3 | 173.9 | 8 |
| 81.5 | 223.5 | 9 |
| 104.1 | 258.1 | 10 |
| 110 | 282.7 | 11 |
| 122.1 | 321.8 | 12 |
| 128 | 370.2 | 13 |
| 161.9 | 387.5 | 14 |
| 160.9 | 382.9 | 15 |
| 186.7 | 414.5 | 16 |
| 212.1 | 459.7 | 17 |
| 222.6 | 539.3 | 18 |
| 223.3 | 539.3 | 19 |
| 278.1 | 634.8 | 20 |
| 299.3 | 665.4 | 21 |
| 313.1 | 679.3 | 22 |
| 338.3 | 675.2 | 23 |
| 339 | 678.8 | 24 |
| 364 | 688.1 | 25 |
| 365.2 | 651.1 | 26 |
| 349.1 | 629.4 | 27 |
| 307.3 | 555.5 | 28 |
| 286.7 | 528 | 29 |
| 265.5 | 473.7 | 30 |
| 228 | 451.6 | 31 |
| 222.6 | 416.5 | 32 |
| 213.8 | 402.5 | 33 |
| 210 | 377.2 | 34 |
| 202.1 | 365.6 | 35 |
| 198.3 | 353.7 | 36 |
| 190.6 | 335.4 | 37 |

(Lanjutan)

| | | |
|-------|-------|----|
| 186.9 | 326.2 | 38 |
| 183.6 | 308.7 | 39 |
| 176.3 | 299.3 | 40 |
| 172.5 | 281.3 | 41 |
| 164.8 | 272.5 | 42 |
| 160.2 | 256.7 | 43 |
| 153.5 | 249.8 | 44 |
| 150.7 | 244 | 45 |
| 145.4 | 232.8 | 46 |
| 142.8 | 227.8 | 47 |
| 140.2 | 217.8 | 48 |
| 135.5 | 213 | 49 |
| 133.4 | 203.3 | 50 |
| 128.7 | 199 | 51 |
| 126.3 | 190.8 | 52 |
| 122.1 | 186.9 | 53 |
| 120 | 183.3 | 54 |
| 116.2 | 176.6 | 55 |
| 114.4 | 173 | 56 |
| 112.5 | 165.7 | 57 |
| 108.8 | 162.4 | 58 |
| 108.8 | 162.4 | 59 |
| 108.8 | 162.4 | 60 |
| 102.3 | 146.9 | 61 |
| 99 | 143.8 | 62 |
| 97.5 | 140.9 | 63 |
| 94.7 | 135.5 | 64 |
| 93.1 | 133.1 | 65 |
| 90.4 | 128.2 | 66 |
| 89.3 | 125.8 | 67 |
| 88.1 | 121.4 | 68 |
| 85.6 | 119.3 | 69 |
| 84.5 | 115.1 | 70 |
| 82 | 113 | 71 |
| 80.6 | 110.9 | 72 |
| 78.1 | 106.2 | 73 |
| 76.7 | 104.1 | 74 |
| 74.6 | 100 | 75 |
| 73.7 | 98.1 | 76 |
| 72.5 | 94.7 | 77 |
| 70.2 | 92.9 | 78 |

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|------|------|-----|
| 69 | 89.5 | 79 |
| 67.2 | 88.1 | 80 |
| 66.2 | 86.8 | 81 |
| 64.6 | 84.3 | 82 |
| 63.9 | 83.1 | 83 |
| 62.5 | 80.9 | 84 |
| 61.8 | 80 | 85 |
| 61.1 | 77.6 | 86 |
| 60 | 76.7 | 87 |
| 59.3 | 74.6 | 88 |
| 58.1 | 73.7 | 89 |
| 57.6 | 72.7 | 90 |
| 56.5 | 70.9 | 91 |
| 55.8 | 70 | 92 |
| 54.8 | 68.3 | 93 |
| 54.1 | 67.4 | 94 |
| 53.7 | 66 | 95 |
| 52.7 | 65.1 | 96 |
| 52 | 63.7 | 97 |
| 51.3 | 63 | 98 |
| 50.9 | 62.3 | 99 |
| 50 | 60.9 | 100 |
| 49.5 | 60.2 | 101 |
| 48.8 | 59 | 102 |
| 48.6 | 58.6 | 103 |
| 48.1 | 57.9 | 104 |
| 48.1 | 57.9 | 105 |
| 48.1 | 55.8 | 106 |
| 46.5 | 55.1 | 107 |
| 46 | 54.4 | 108 |
| 45.1 | 53.4 | 109 |
| 44.8 | 52.7 | 110 |
| 44.1 | 51.8 | 111 |
| 43.7 | 51.3 | 112 |
| 43.4 | 50.2 | 113 |
| 42.7 | 49.7 | 114 |
| 42.5 | 49 | 115 |
| 42 | 48.6 | 116 |
| 41.8 | 48.1 | 117 |
| 41.1 | 47.2 | 118 |
| 40.9 | 46.7 | 119 |

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| | | |
|------|------|-----|
| 40.4 | 46 | 120 |
| 40.2 | 45.8 | 121 |
| 39.7 | 45.3 | 122 |
| 39.5 | 44.8 | 123 |
| 39.2 | 44.4 | 124 |
| 38.8 | 44.1 | 125 |
| 38.5 | 43.4 | 126 |
| 38.1 | 43.2 | 127 |
| 38.1 | 42.7 | 128 |
| 37.6 | 42.3 | 129 |
| 37.4 | 42 | 130 |
| 36.9 | 41.6 | 131 |
| 36.9 | 41.1 | 132 |
| 36.9 | 40.9 | 133 |
| 36.4 | 40.6 | 134 |
| 36.4 | 40 | 135 |
| 36.2 | 40 | 136 |
| 36 | 39.5 | 137 |
| 35.7 | 39.2 | 138 |
| 35.5 | 39 | 139 |
| 35.2 | 38.8 | 140 |
| 35.2 | 38.5 | 141 |
| 35 | 38.1 | 142 |
| 34.8 | 37.8 | 143 |
| 34.5 | 37.6 | 144 |
| 34.3 | 37.4 | 145 |
| 34.3 | 37.4 | 146 |
| 34.1 | 36.9 | 147 |
| 33.8 | 36.9 | 148 |
| 33.8 | 36.7 | 149 |
| 33.8 | 36.7 | 150 |
| 33.8 | 36.7 | 151 |
| 33.1 | 36 | 152 |
| 33.1 | 35.7 | 153 |
| 32.9 | 35.5 | 154 |
| 32.9 | 35.5 | 155 |
| 32.9 | 35.5 | 156 |
| 32.7 | 35.2 | 157 |
| 32.7 | 35.2 | 158 |
| 32.4 | 35 | 159 |
| 32.4 | 35 | 160 |

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| | | |
|------|------|-----|
| 32.9 | 35 | 161 |
| 32.4 | 35 | 162 |
| 32.4 | 35 | 163 |
| 32.4 | 35 | 164 |
| 32.2 | 35 | 165 |
| 32.4 | 35 | 166 |
| 32.2 | 34.8 | 167 |
| 32.2 | 34.8 | 168 |
| 32.2 | 34.5 | 169 |
| 32 | 34.3 | 170 |
| 32 | 34.1 | 171 |
| 31.7 | 33.8 | 172 |
| 31.7 | 33.6 | 173 |
| 31.5 | 33.6 | 174 |
| 31.7 | 33.6 | 175 |
| 31.7 | 33.6 | 176 |
| 31.7 | 33.6 | 177 |
| 31.7 | 33.6 | 178 |
| 31.7 | 33.4 | 179 |
| 31.5 | 33.4 | 180 |
| 31.5 | 33.4 | 181 |
| 31.5 | 33.4 | 182 |
| 31.2 | 33.4 | 183 |
| 31.2 | 33.4 | 184 |
| 31 | 33.4 | 185 |
| 31 | 33.4 | 186 |
| 31.2 | 33.6 | 187 |
| 31.2 | 33.6 | 188 |
| 31.5 | 33.4 | 189 |
| 31.2 | 33.4 | 190 |
| 31.2 | 33.1 | 191 |
| 31 | 32.9 | 192 |
| 31 | 32.9 | 193 |
| 30.8 | 33.4 | 194 |
| 30.8 | 32.9 | 195 |
| 30.8 | 32.9 | 196 |
| 30.8 | 32.9 | 197 |
| 30.3 | 32.2 | 198 |

