

LAMPIRAN

LAMPIRAN I. HASIL PERHITUNGAN DATA PENELITIAN

1. Tanpa Pemanasan

Notch area (mm²)

$$8 \times 10 = 80 \text{ mm}^2$$

Energi impact (J) = 16 J

$$\text{Impact Value} = \frac{16 \text{ J}}{80 \text{ mm}^2} = 0,2 \text{ J/mm}^2$$

Notch area (mm²)

$$8 \times 10 = 80 \text{ mm}^2$$

Energi impact (J) = 18 J

$$\text{Impact Value} = \frac{18 \text{ J}}{80 \text{ mm}^2} = 0,22 \text{ J/mm}^2$$

2. Dengan perlakuan panas

a. Quenching

Notch area (mm²)

$$8 \times 10 = 80 \text{ mm}^2$$

Energi impact (J) = 3 J

$$\text{Impact Value} = \frac{3 \text{ J}}{80 \text{ mm}^2} = 0,03 \text{ J/mm}^2$$

Notch area (mm²)

$$8 \times 10 = 80 \text{ mm}^2$$

Energi impact (J) = 4 J

$$\text{Impact Value} = \frac{4 \text{ J}}{80 \text{ mm}^2} = 0,05 \text{ J/mm}^2$$

b. Tempering 450 °C

Notch area (mm²)

$$8 \times 10 = 80 \text{ J/mm}^2$$

Energi impact (J) = 7 J

$$\text{Impact Value} = \frac{7 \text{ J}}{80 \text{ mm}^2} = 0,008 \text{ J/mm}^2$$

Notch area (mm²)

$$8 \times 10 = 80 \text{ J/mm}^2$$

Energi impact (J) = 6 J

$$\text{Impact Value} = \frac{6 \text{ J}}{80 \text{ mm}^2} = 0,007 \text{ J/mm}^2$$

c. Tempering 550 °C

Notch area (mm²)

$$8 \times 10 = 80 \text{ J/mm}^2$$

Energi impact (J) = 6 J

$$\text{Impact Value} = \frac{6 \text{ J}}{80 \text{ mm}^2} = 0,007 \text{ J/mm}^2$$

Notch area (mm²)

$$8 \times 10 = 80 \text{ J/mm}^2$$

Energi impact (J) = 8 J

$$\text{Impact Value} = \frac{8 \text{ J}}{80 \text{ mm}^2} = 0,1 \text{ J/mm}^2$$