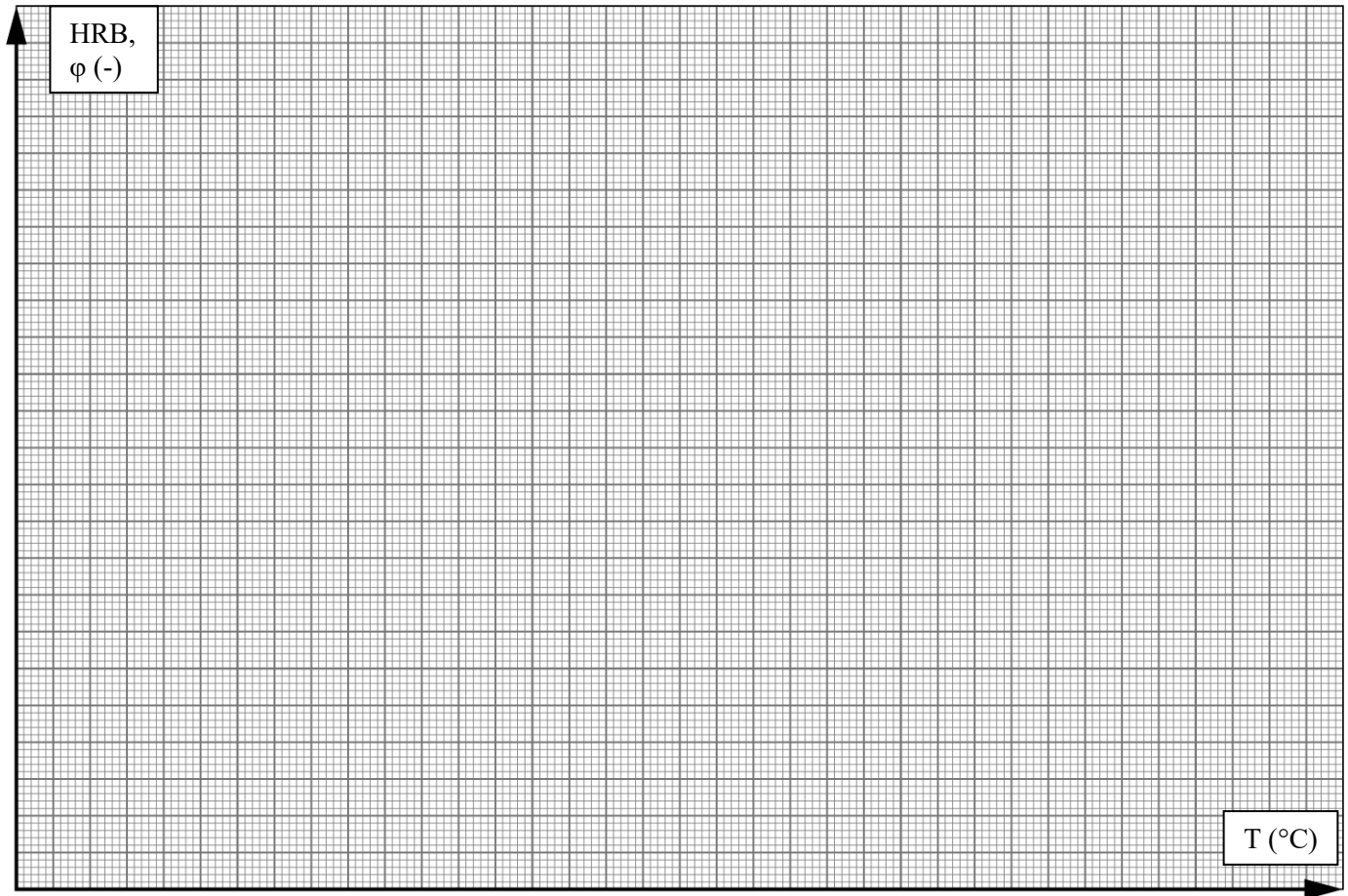


Hot forming

Name:		Neptun-code:		Lab course.:	Checked by:
A vizsgálat helye: BME Department of Marterials Scince and Engineering, Building G – Plastic forming laboratory				Workpiece material quality:	
The purpose of the measurement:					
Technical drawing of an unformed workpiece			Technical drawing of the formed workpiece		
Schematic diagram of the upsetting process					
Measurement results					
Number	Temperature (°C)	Height (mm)	Hardness (HRB)	Deformation (-) $\varphi = \ln \frac{h_0}{h_1}$	
0. Initial data	---			---	
1.					
2.					
3.					
4.					
Evaluation of the measurement					



Open-die forging		
Product name:	Material:	Forging temperature:
Illustration of the main steps of the manufacturing process with drawings		
Comment		



Hot forming

Név, Neptun-kód:

PRELIMINARY QUESTIONS

(Circle the number of the 3 questions you received in the lab)

1. When is a process considered hot working?
2. Sketch a hot-working flow curve.
3. Why is a much greater degree of deformation achievable through hot forming than through cold forming?
4. Define the temperature range for cold forming.
5. Define the temperature range for hot forming.
6. List the advantages of hot forming compared to cold forming.
7. List the disadvantages of hot forming compared to cold forming.
8. Name two hot-forming processes.
9. List four basic operations of open-die forging.
10. What is the difference between open-die forging and closed-die forging?

Responses given during labor

OK / NOK	Instructor's signature: