

Self Assessment

1. The pressure head in Mechanocaloric effect is proportional to _____.
2. In Thermomechanical effect, _____ fluid flows out of fine powder.
3. The viscosity of Super fluid helium is _____ than normal fluid.
4. At a given pressure, the temperature of LHe – 3 is _____ than LHe – 4.

Self Assessment

5. Boiling point of LHe – 3 is _____
6. Principle of Dilution Refrigerator is _____
7. _____ isotope of Helium is difficult to separate & also mention the temperature.
8. Second sound is due to the oscillations of _____
9. The speed of Third sound in LHe – II is _____

Self Assessment

10. The thickness of Rollin film is in the order of _____
11. The Tricritical point occurs at _____ temperature.
12. Phase separation in He- 3 and He -4 Mixture occurs below _____ Temperature.

Answers

1. Rise in temperature
2. Super fluid helium (LHe -II).
3. Greater
4. Lower
5. 3.19 K
6. The separation that occurs below 0.8 K.
7. He - 3
8. Normal fluid and Super fluid Helium
9. 0.5 m/s

Answers

10. 30 nm

11. 0.872 K

12. 1 K