

# HEAT AND ITS MEASUREMENT

Name \_\_\_\_\_

Heat (or energy) can be measured in units of calories or joules. When there is a temperature change ( $\Delta T$ ), heat ( $Q$ ) can be calculated using this formula:

$$Q = \text{mass} \times \Delta T \times \text{specific heat capacity}$$
$$(\Delta T = \text{Final Temp} - \text{Initial Temp})$$

During a phase change, we use this formula:

$$Q = \text{mass} \times \text{heat of fusion (or heat of vaporization)}$$

Solve the following problems.

- |   |       |
|---|-------|
| 1. How many joules of heat are given off when 5.0 g of water cool from 75° C to 25° C? (Specific heat of water = 4.18 J/g° C) | _____ |
| 2. How many calories are given off by the water in Problem 1? (Specific heat of water = 1.0 cal/g° C)                         | _____ |
| 3. How many joules does it take to melt 35 g of ice at 0° C? (heat of fusion = 333 J/g)                                       | _____ |
| 4. How many calories are given off when 85 g of steam condense to liquid water? (heat of vaporization = 539.4 cal/g)          | _____ |
| 5. How many joules of heat are necessary to raise the temperature of 25 g of water from 10° C to 60° C?                       | _____ |
| 6. How many calories are given off when 50 g of water at 0° freezes? (heat of fusion = 79.72 cal/g)                           | _____ |

# Heat And Its Measurement Worksheet Answers

**Karen M. Perrin, Perrin**



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web din 51524 hvlp ohne hf 15 din 51517 clp hf 68 hf 100 description cassida fluid hf 15 32 46 68 and 100 are high performance anti wear multipurpose

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web cassida fluid hf 46 is a high performance anti wear multipurpose lubricant and is available to purchase online from silmid

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web description cassida fluid hf 15 32 46 68 and 100 are high performance anti wear multipurpose lubricants specially developed for use in machinery used in the food and

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web cassida fluid hf 46 22 l turkoilmarket com madeni yağ fiyatları motor yağı fiyat benzinli dizel araba yağları makine yağları fiyatı şanzıman yağları motosiklet yağları

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web fuchs cassida fluid hf 46 is a multi purpose lubricant with excellent anti wear characteristics it was manufactured by shell in the past and is known for its high levels

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web product name cassida fluid hf 46 reference no 4174 issued 2022 nov 16 version 5 0 page 1 of 6 non hazardous non dangerous goods 1 material and supply



**fuchs cassida fluid hf 46 22l oil store** - Feb 25 2022

web product name cassida fluid hf 46 material and supply company identification product name cassida fluid hf 46 recommended use

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web cassida fluid hf 15 32 46 68 und 100 sind vollsynthetische hochwertige hydrauliköle mit ep eigenschaften welche speziell für die schmierung in der lebensmittelindustrie

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web nsf has processed the application for registration of cassida fluid hf 46 to the nsf international registration guidelines for proprietary substances and nonfood

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web cassida fluid hf 46 55 gal idi 39627 shell eindustrialsolutions com is your source for shell cassida fluid hf 46 55 gal replacement oil we ve crossed referenced our

**shell cassida fluid hf southern lubricants** - Dec 06 2022

web cassida fluid hf 46 product name revision date 05 12 2022 version 1 3 print date 03 06 2023 sds dk en 000000000600759599 5 9 solubility in water insoluble in

**cassida fluid hf 46 pail 22 liter eriks shop nl** - Jul 01 2022

web cassida fluid hf 15 sentetik gıdaya uygun aşınmaya karşı dayanıklı hidrolik yağlardır Özellikler yüksek yağlama performansı Üstün aşınma önleme özelliği sayesinde sistem

fuchs cassida hf 46 synthetic hydraulic fluid 22lt pail - Nov 05 2022

web cassida fluid hf 46 is a fully synthetic high performance long life anti wear hydraulic oil meet iso 6743 4 hm din 51524 hlp hvlp and din 51517 clp iso 68 and iso 100

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hydraulic systems hydrostatic gears plain and anti friction bearings general purpose lubrication including light duty gearboxes circulating oil systems see more

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compatible with the elastomers gaskets seals and paints normally used in food machinery lubrication systems see more

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