

## SOLVENTS

## HOMEWORK

1.

Identify the chemical-resistant gloves that will protect your hands from contamination with **Acetone (CAS 67-64-1)** when you are in contact with the liquid for more than 30 minutes. For each model of gloves, write down the following information:

- 1) How thick are the gloves?
- 2) What are the gloves made of?

**Which of the gloves identified would YOU want to use? Why?**

Use databases available from:



- ❖ **Showa Best** ([www.showabestglove.com](http://www.showabestglove.com)) → Gloves → **Chem Rest** → Chemical Name → A-C → Acetone → find the gloves for which time listed is > 30 → Click on glove ID for information about thickness

Example;

https://www.showagroup.com/products/search/?searchKey=dd3096bb6ac9cc81f5a7277791a35b6181adb0f6&page=1&items=10 120% ...

**FILTER BY:**

- + INDUSTRY
- HAZARDS
  - + Mechanical
  - **ChemRest\***
    - Chemical Name
      - A-C
        - ABL
        - Acetaldehyde
        - Acetate, 2-Chloro-2-Oxoethyl
        - Acetate, Isopropyl
        - Acetic Acid, 100%

	<b>810</b> LINER Cotton COATING PVC GRIP Rough LENGTH 10 in. <input type="checkbox"/> Compare
	<b>723</b> LINER Cotton Flock COATING Neoprene GRIP Embossed LENGTH 13 in. <input type="checkbox"/> Compare

Acetone 67-64-1 36

- ❖ **Ansell Pro** ([www.ansellpro.com](http://www.ansellpro.com)) → **SpecWare Online Chemical Hand Protection** → Chemical name → Acetone → find the gloves for which breakthrough time is > 30 → Click on “...” under each glove ID for information on glove thickness and material



arch  
her [Click Here](#)

Material and add to  
Material  
earch

● > 480    ● 120-240    ● 30-60    ● < 10  
● 240-480    ● 60-120    ● 10-30

G - Good  
F - Fair

[Download Report](#) | EN374

Chemicals <span>Remove All</span>			Product <span>i</span> <span>Load Default Product</span>				
CAS	Chemical Name	%	93-260	92-500.600.605 / 93-250.300.700	58-530.535	38-612	38-514
67-64-1	Acetone	100	3'	< 10'	< 10'	93'	240-480'

Glove ID

Permeation time

- ❖ **The manufacturer of the gloves you are currently using** → find the chemical resistance chart on their website → look up the gloves suitable for protection from acetone

2.

Read “Handling Flammable Materials” – Chapter 9, page 290 - Auto Repair Technology – Duffy, 6<sup>th</sup> edition or equivalent, as assigned by your instructor.

3.

Read “Chemical- and Liquid-Resistant Gloves” - pages 24-30 - in **Personal Protective Equipment-OSHA.pdf** available in the “I want to know more” folder.

**NOTE:** the website screen shots were taken on April 10, 2018.

