

LABORATORY WORK SHEET

Name of the S	Student :					
				Roll Number		
Class		Semester				
Course Code	. AH1005	Course Name :	EC LAB			
Name of the Course Faculty					D :	
Exercise Number :		08 Date:				
DAY TO DAY	EVALUATION	l:				
Marks	Aim / Preparation	Algorithm / Procedure	Source Code	Program Execution	Viva -	Total
		Performance in the Lab	Calculations and Graphs	Results and Error Analysis	Voce	
Max. Marks	4	4)	4	4	4	20
Obtained				A = 150		

Signature of Faculty

START WRITING FROM HERE:

Preparation of thiokol rubber

Aim: To synthesize thickol rubber using sodium polysulphide with 1,2 - Dichloroethane.

Apparatus: Breakers, glass rod, funnel etc.

chemicals required:

- 1. sodium hydroxide
- 2. powered sulphur
- 3. 1,2 Dichloroethane
- 4. 5% H2504 etc.

ROLL NUMBER:

Thory:

It is a rubbery which substance and is obtained by treating sodium polysulphide with 1,2 - Dichloro ethane

St + 2NaOH -> Nalse

 $n(cl-cH_2-cH_2-cl) + nNa_2SP \rightarrow [-cH_2-cH_2-S-S-Jn+2nNa(l-cH_2-Dichloro ethane sodium Thiokol Rubber polysulphide$

Procedure:

- 1. In a 100ml beaker dissolve 2gms NaOH in 50-60 ml of wakr.
- 2 Boil th solution and to this add in small lots with stoing ugm of powdered sulphur. During addition and stirring the yellow solution turns deep red.
- 3. cool it to 60-70°c and add 10 ml of 1,2-Dichloro ethane with stirring. Silv for an additional period of 20 min while rubber polymer seperated out as lamp.
- 4. pour out the liquide from the beaker in the sink to obtain thickol rubber. wash under the tap.
- 5. Dry in the fold of fitter paper, the yield is about 1.5 gm. Determine the solubility of the polymer in Benzene, Acetone, 5°(. H2504 and HNO3 etc.

Result :

Yield obtained = 234 gm