



# COMSATS University Islamabad- Lahore Campus

## Department of Chemical Engineering

### Internal Mixer (Rheomix 600OS) Sample Submission Form

(Doc No.: CIIT-LHR/ChE-Lab/Temp/123)

#### 1. Submitter Details

Name	
E-mail Address	
Dept. & University/ Industry Name	
Mobile No.	

#### 2. Sample Details

Number of Samples	(Maximum 5 Samples)				Date:
Sample ID (s)					
Composition of compound/ Materials to be mixed.  (Enlist in a short form format)					
Quantity (g) of each material					

#### 3. Sample Preparation/Mixing Details

Sample IDs	Mixing Conditions	Mixing Sequence	Measurements Required
	Rotor Type : Banbury Mixing Time : _____ Temperature : _____ Rotor Speed : _____ Filling % : _____	1 <sup>st</sup> material: _____ Time : _____ 2 <sup>nd</sup> material: _____ Time : _____ 3 <sup>rd</sup> material: _____ Time : _____ 4 <sup>th</sup> material: _____ Time : _____ 5 <sup>th</sup> material: _____ Time : _____ 6 <sup>th</sup> material: _____ Time : _____ 7 <sup>th</sup> material: _____ Time : _____ 8 <sup>th</sup> material: _____ Time : _____ 9 <sup>th</sup> material: _____ Time : _____ 10 <sup>th</sup> material: _____ Time : _____	Torque (S) <input type="checkbox"/> Energy (E) <input type="checkbox"/> Melt Temperature (TM) <input type="checkbox"/> Conductivity(C) <input type="checkbox"/>
	Rotor Type : Banbury Mixing Time : _____ Temperature : _____ Rotor Speed : _____	1 <sup>st</sup> material: _____ Time : _____ 2 <sup>nd</sup> material: _____ Time : _____ 3 <sup>rd</sup> material: _____ Time : _____ 4 <sup>th</sup> material: _____ Time : _____ 5 <sup>th</sup> material: _____ Time : _____ 6 <sup>th</sup> material: _____ Time : _____	Torque (S) <input type="checkbox"/> Energy (E) <input type="checkbox"/> Melt Temperature (TM) <input type="checkbox"/>

	Filling % : _____	7 <sup>th</sup> material: _____ Time : _____ 8 <sup>th</sup> material: _____ Time : _____ 9 <sup>th</sup> material: _____ Time : _____ 10 <sup>th</sup> material: _____ Time : _____	Conductivity(C) <input type="checkbox"/>
	Rotor Type : Banbury Mixing Time : _____ Temperature : _____ Rotor Speed : _____ Filling % : _____	1 <sup>st</sup> material: _____ Time : _____ 2 <sup>nd</sup> material: _____ Time : _____ 3 <sup>rd</sup> material: _____ Time : _____ 4 <sup>th</sup> material: _____ Time : _____ 5 <sup>th</sup> material: _____ Time : _____ 6 <sup>th</sup> material: _____ Time : _____ 7 <sup>th</sup> material: _____ Time : _____ 8 <sup>th</sup> material: _____ Time : _____ 9 <sup>th</sup> material: _____ Time : _____ 10 <sup>th</sup> material: _____ Time : _____	Torque (S) <input type="checkbox"/> Energy (E) <input type="checkbox"/> Melt Temperature (TM) <input type="checkbox"/> Conductivity(C) <input type="checkbox"/>
	Rotor Type : Banbury Mixing Time : _____ Temperature : _____ Rotor Speed : _____ Filling % : _____	1 <sup>st</sup> material: _____ Time : _____ 2 <sup>nd</sup> material: _____ Time : _____ 3 <sup>rd</sup> material: _____ Time : _____ 4 <sup>th</sup> material: _____ Time : _____ 5 <sup>th</sup> material: _____ Time : _____ 6 <sup>th</sup> material: _____ Time : _____ 7 <sup>th</sup> material: _____ Time : _____ 8 <sup>th</sup> material: _____ Time : _____ 9 <sup>th</sup> material: _____ Time : _____ 10 <sup>th</sup> material: _____ Time : _____	Torque (S) <input type="checkbox"/> Energy (E) <input type="checkbox"/> Melt Temperature (TM) <input type="checkbox"/> Conductivity(C) <input type="checkbox"/>
	Rotor Type : Banbury Mixing Time : _____ Temperature : _____ Rotor Speed : _____ Filling % : _____	1 <sup>st</sup> material: _____ Time : _____ 2 <sup>nd</sup> material: _____ Time : _____ 3 <sup>rd</sup> material: _____ Time : _____ 4 <sup>th</sup> material: _____ Time : _____ 5 <sup>th</sup> material: _____ Time : _____ 6 <sup>th</sup> material: _____ Time : _____ 7 <sup>th</sup> material: _____ Time : _____ 8 <sup>th</sup> material: _____ Time : _____ 9 <sup>th</sup> material: _____ Time : _____ 10 <sup>th</sup> material: _____ Time : _____	Torque (S) <input type="checkbox"/> Energy (E) <input type="checkbox"/> Melt Temperature (TM) <input type="checkbox"/> Conductivity(C) <input type="checkbox"/>

#### 4. COSHH Details

##### 4.1 Hazards for each respective sample

Sample IDs	Hazards Identification (HAZID)						
	Very Toxic	Toxic	Flammable	Corrosive	Harmful	Irritant	Highly reactive
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

#### 4.2 Specific precautions for each sample

Sample IDs	Precautions			
	Gloves	Mask	Fire Extinguisher (For Flammable materials)	Other (specify)
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

I declare that I have assessed the risk of using the samples listed above and consider that they are safe to use provided that good laboratory practice is followed together with the safety requirements as detailed above.

By signing this form I agree the terms and conditions as stated below:

1. No sample will be accepted/tested without completing the COSHH form.
2. The amount of the sample submitted for testing may be lost.
3. The scan graph and other related data will be provided on a CD provided by the submitter.
4. Well prepared samples must be provided. Our lab will not be allowed for preparing/refining samples.
5. The samples must be sent through proper channel.
- 6. Maximum 5 samples can be submitted at one time.**
7. For samples originating from other sources than CIIT, extra terms and conditions will be applied. For details, contact Dr. Zulfiqar Ali ([zulfiqarali@ciitlahore.edu.pk](mailto:zulfiqarali@ciitlahore.edu.pk)) OR Engr. Mulazim Ali ([mulazimali@ciitlahore.edu.pk](mailto:mulazimali@ciitlahore.edu.pk)).
- 8. The sample indicated in this COSHH form are mine and do not originate from some other university/institute/organization.**

Name (Submitter)		Signature & Date	
Name (Supervisor)		Signature & Date	

For Official Use Only (Do not write below this line)

**Approval and comments**

---

Equipment in-charge name: \_\_\_\_\_ Signature & Date: \_\_\_\_\_

Lab In-charge name: \_\_\_\_\_ Signature & Date: \_\_\_\_\_