



# Test Report

<b>Report No.</b>	MO1 4513 12 2020
<b>Client</b>	<b>Tri-chem Construction chemicals</b>
<b>Authority &amp; date</b>	Request Orders Date 13/12/2020
<b>Items Tested</b>	<b>Tri- Co Rundum</b>
<b>Results</b>	The detailed test results are given on the following pages of this report ( 4 pages)
<b>Report Typist</b>	* Mis. Naglaa Mohamed-Sara Abdel Reheam
<b>Test carried and supervised by</b>	* Mis. Fatma El – Zahraa Fikry * H.Eng. Ahmed Said * Chem. Amr El Shafey * Dr. Abou El Ftouh Abd El Hakem
<b>Authorized by</b>	<b>Prof. Dr. Mostafa Zaki Mostafa</b> * The Supervisor of Ceramics, Polymer and Solid Matter Department. * Management Representative and Quality Assurance Manager.
<b>Issue date</b>	3/2/2021
<b>Condition of Test &amp; Issue</b>	The test speciemen was conditioned at 23 °C with a humidity of 60 % and the needed calibrations as well as balancing of the all used machines were always done .





**NATIONAL RESEARCH CENTRE**  
**TAHRIR St. DOKKI, CAIRO, EGYPT**  
Central Unit For Analysis And  
Scientific Services (CUASS)  
Material Test Lab.

**المركز القومي للبحوث**  
الدقى . القاهرة . جمهورية مصر العربية  
وحدة التحاليل والخدمات العلمية المركزية  
معمل اختبار المواد



### **To / Tri-chem Construction chemicals**

**Dear Sir.,**

*With correspondence to your request dated 13/12/2020 concerning the sample of Tri- Co Rundum , We would like to inform you that the all following needed test were carried out which namely:-*

- 1- Abrasion Resistance test according to ASTM D4060 .**
- 2- Compressive strength test after 28days according to ASTM C579**

*We would like to inform you that the all needed tests were carried out taking into consideration the following conditions :*

- 1- In all mechanical properties GALDABINI – QUASAR 600 – Made In Italy Universal Testing Machine was used This type has a self calibration , zero adjusting and automatic balance , which are done daily before testing or during testing this testing instrument is accompanied by a highly reliable system for evaluating the mechanical properties .*
- 2-Measuring drum of sensitivity  $\pm 0.01$ mm was used for dimensions evaluation.*
- 3- In Abrasion resistance machine type Models 505 DUAL APRASION Tester.*
- 4-Weighing Balance with tolerance + 0.0001 g was used in determining the weights*
- 5- The all used Machinery and the apparatus were calibrated periodically .*

*The following table gives the obtained results representing the sample applied by your company.*







**Test results on a sample of Tri- Co Rundum**

**Delivered from Tri-chem Construction chemicals**

**1- Abrasion resistance test according to ASTM D4060**

No. of cycle	Used wheel	Weight (g)	Weight loss (mg)
1000	CS 17	1000	93.1

**2- Compressive strength test after 28days**

**according to ASTM C579**

No.	Compressive strength (N/mm <sup>2</sup> )	Mean (N/mm <sup>2</sup> )
1	42.73	42.48
2	43.11	
3	41.59	





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*This report was given to you representing only the results for the sample of Tri- Co Rundum, Delivered from Tri-chem Construction chemicals, These results and conclusions were given to you without any responsibility on **THE CERAMICS, POLYMERS AND SOLID MATTER DEP.** of **THE MATERIAL TEST LAB** in **THE NATIONAL RESEARCH CENTRE** for pick up the samples to be tested .*

**Head of Director of The Board of Central Department  
for Scientific Analysis and Tests**

&

**SUPERVISOR <sup>3</sup>**  
**OF CERAMICS, POLYMER AND  
SOLID MATTER DEPARTMENT**

**PROF.DR. MOSTAFA ZAKI MOSTAFA**



شارع التحرير - الدقى - القاهرة

مباشر ٣٣٣٨٧٨٠٣  
وفاكس ١٨١٠

داخلى ١٤٢٤

٣٣٣٧١٦١٥ - ٣٣٣٧١٣٦٢  
٣٧٦٠٧٥٤١ - ٣٣٣٥٥١٩٢



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