

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

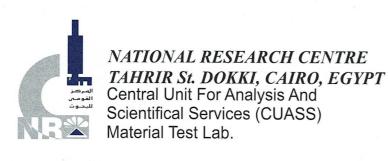
# المركز القومى للبحوث

الدقى . القاهرة . حمهورية مصر العربية وحدة التحاليل والخدمات العلمية المركزية معمل اختبار المواد



# Test Report

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



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#### To / Tri-chem Construction chemicals

#### Dear Sir.,

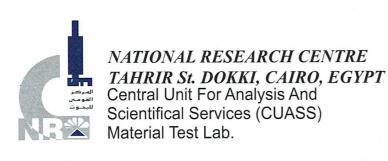
With correspondence to your request dated 13/12/2020 concerning the sample of Tri- Co Rundum, We would like to inform you that the all following needed test were carried out which namely:-

- 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.



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# 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/mm2)	Mean (N/mm2)
1	42.73	
2	43.11	42.48
3	41.59	



E-mail: nrc1302a@yahoo.com



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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 THE NATIONAL THE MATERIAL TEST LAB in DEP. **RESEARCH CENTRE** for pick up the samples to be tested.

> Head of Director of The Board of Central Depertment for Scientifical Analysis and Tests

> > SUPERVISOR OF CERAMICS, POLYMER AND R DEPARTMENT SOLID MATT

MOSTAFA PROF.D.

E-mail: nrc1302a@yahoo.com