

RECOVERY OF ZIRCONIUM FROM EGYPTIAN ZIRCON SANDS

A Thesis submitted

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Chemistry Department, Faculty of Science
Ain Shams University

BY

Adel Aziz Francis

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Under the Supervision of

Prof. Dr. Mohamed Fathi El-Shahat

Prof. of Inorganic and Analytical

Chemistry, Faculty of Science,

Ain Shams University

Prof. Dr. Samir Zaki El-Tawil

Head of Extractive Metallurgy

Department, CMRDI

Prof. Dr. Kamilia Abd El-Hamid El-Barawy

Head of Pyrometallurgy Lab., CMRDI

Prof. Dr. Ibrahim Mohamed Morsi

Pyrometallurgy Lab., CMRDI

Cairo, Egypt

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Thesis Advisors

1. Prof. Dr. Mohamed Fathi El-Shahat

Professor of Inorganic and Analytical Chemistry,
Faculty of Science, Ain Shams University

Approved

E. F. El-Shahat

2. Prof. Dr. Samir Zaki El-Tawil

Head of Extractive Metallurgy Department, CMRDI

S. Z. El-Tawil

3. Prof. Dr. Kamilia Abd El-Hamid El-Barawy

Head of Pyrometallurgy Lab., CMRDI

K. E. El-Barawy

4. Prof. Dr. Ibrahim Mohamed Morsi

Pyrometallurgy Lab., CMRDI

I. M. Morsi

Prof. Dr. Amin Farouk M. Fahmy

A. F. M. Fahmy

Head of the Chemistry Department

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LIST OF CONTENTS

	<i>Page</i>
ABSTRACT	1
LIST OF FIGURES	3
LIST OF TABLES	9
I. INTRODUCTION	10
AIM OF THE WORK	14
II. LITERATURE	15
II.1 Zircon structure	15
II.2 Zirconia structure	18
II.2.1 Phase transformation of ZrO_2	18
II.3 Phase diagrams of ZrO_2 systems	19
Zirconium -oxygen systems	19
ZrO_2 - SiO_2 system	22
CaO - ZrO_2 - SiO_2 system	25
CaO - MgO - ZrO_2 - SiO_2 system	25
Na_2O - ZrO_2 - SiO_2 system	29
II.4 Chlorination Process	32
II.4.1 Chlorination aspects	32
II.4.2 Chlorination of zircon	32
II.5 Alkaline earth sintering of zircon	41
II.6 Alkali fusion of zircon	44
II.6.1 Soda Ash reaction	44

II.6.2 Sodium hydroxide reaction	46
II.7 Kinetic models used in solid state reaction.	49
III. EXPERIMENTAL	52
III.1 Raw materials	52
III.2 Experimental Techniques	52
III.3 Methods of analysis	59
IV. RESULTS & DISCUSSION	62
IV.1 Characteristics of Zircon Concentrate	62
IV.2 Chlorination of Zircon	66
IV.2.1 Effect of carbon	66
IV.2.2. Effect of chlorine flowrate	68
IV.2.3. Effect of temperature	68
IV.2.4. Effect of particle size	72
IV.2.5. Effect of temperature and time	72
IV.2.6. Chlorination Kinetics of Zircon	86
IV.2.7. Mechanism of chlorination	91
IV.3 Sintering of Zircon with Alkaline Earth oxides.	93
IV.3.1 Reaction of zircon with lime (CaO)	93
IV.3.1.1 <i>Effect of lime</i>	93
IV.3.1.2 <i>Effect of temperature and time</i>	96
IV.3.1.3 <i>Reaction kinetics and mechanism</i>	106

IV.3.2 Sintering of zircon with CaO/MgO mixture	112
<i>IV.3.2.1 Effect of CaO/MgO mixture</i>	112
<i>IV.3.2.2. Effect of temperature and time</i>	114
<i>IV.3.2.3 Kinetics and Mechanism of the reaction.</i>	126
IV.4 Alkali fusion of zircon	132
IV.4.1 Fusion with soda Ash	132
<i>IV.4.1.1 Effect of soda Ash</i>	132
<i>IV.4.1.2 Effect of reaction temperature and time.</i>	142
<i>IV.4.1.3 Reaction Kinetics and mechanism</i>	149
IV.4.2 Alkali fusion of zircon with NaOH	158
<i>IV.4.2.1 Effect of NaOH</i>	158
<i>IV.4.2.2 Effect of temperature and time</i>	159
<i>IV.4.2.3 Treatment of fused products</i>	168
Collective optimum conditions of zirconia production	176
SUMMARY AND CONCLUSION	180
REFERENCES	185
ARABIC SUMMARY	

Symbols of Compounds Revealed by XRD Analysis

Symbol	Compound	Card no.
a	ZrSiO_4	6-0266
b	M-ZrO_2	13-307
c	C-ZrO_2	27-997
d	$\text{Na}_2\text{ZrSiO}_5$	29-1458
e	Na_2ZrO_3	21-1179
F	$\text{Ca}_3\text{ZrSi}_2\text{O}_9$	16-155
G	CaZrO_3	9-364
H	CaSiO_3	19-248
I	$\text{Ca}_2\text{MgSi}_2\text{O}_7$	10-391
J	MgSiO_3	11-273
K	Ca_2SiO_4	20-238
L	Na_2ZrO_3	8-242
M	$\text{CaMgSi}_2\text{O}_6$	11-654
N	Mg_2SiO_4	21-1260
O	$\beta\text{-CaSiO}_3$	19-249
P	ZrC	19-1487
S	C	26-1080

LIST OF ABBREVIATIONS

M-ZrO ₂	Monoclinic zirconia
C-ZrO ₂	Cubic Zirconia
XRD	X-Ray Diffraction Analysis
μ	Microns
hr.	hour
l/gr/hr.	liter/gram/hour
DTA	Differential Thermal Analysis
TGA	Thermal Gravimetric Analysis

