

CONSOLIDATED FORM

Management and Related Person's Negotiation of Securities Issued by the Company - Article 11 - CVM Instruction # 358/2002

In November/2017 there were transactions with securities and derivatives, in compliance with Article 11 - CVM Instruction # 358/2002.

Company Name: MAGNESITA REFRAATÓRIOS S.A.					
<input type="checkbox"/> Company and Related People	<input checked="" type="checkbox"/> Controlling Group	<input type="checkbox"/> Board of Directors	<input type="checkbox"/> Executive Officers	<input type="checkbox"/> Fiscal Council	<input type="checkbox"/> Support Committees
Initial Balance					
Securities/Derivatives	Securities Characteristics	Quantity	% of participation		
			Same class and type	Total	
Shares	Common	25,020,242	50.00%	50.00%	
Final Balance					
Securities/Derivatives	Securities Characteristics	Quantity	% of participation		
			Same class and type	Total	
Shares	Common	25,020,242	50.00%	50.00%	

(rest of the page left in blank intentionally – continues on the next page)

Company Name: MAGNESITA REFRAATÓRIOS S.A.						
<input type="checkbox"/> Company and Related People	<input type="checkbox"/> Controlling Group	<input checked="" type="checkbox"/> Board of Directors	<input type="checkbox"/> Executive Officers	<input type="checkbox"/> Fiscal Council	<input type="checkbox"/> Support Committees	
Initial Balance						
Securities/Derivatives	Securities Characteristics		Quantity	% of participation		
				Same class and type	Total	
Shares	Common		2,930,250*	5,86%	5,86%	
Changes						
Securities/Derivatives	Securities Characteristics	Operation	Date	Quantity	Price	Volume (R\$)
Shares	Common	Sale	13/11/2017	-1,300	46.00	- 59,800
Shares	Common	Sale	14/11/2017	-3,800	46.21	- 175,598
Shares	Common	Purchase	14/11/2017	5,700	45.11	257,127
Shares	Common	Sale	16/11/2017	-272,200	45.60	- 12,412,320
Shares	Common	Sale	17/11/2017	-17,300	45.96	- 795,108
Shares	Common	Sale	21/11/2017	-13,000	45.99	- 597,870
Shares	Common	Sale	22/11/2017	-31,000	45.55	- 1,412,050
Shares	Common	Sale	23/11/2017	- 8,400	45.76	- 384,384
Shares	Common	Sale	24/11/2017	- 8,300	45.91	- 381,053
Shares	Common	Purchase	27/11/2017	7,000	45.99	321,930
Shares	Common	Sale	28/11/2017	- 800	46.80	- 37,440
Shares	Common	Purchase	28/11/2017	12,200	46.50	567,300
Shares	Common	Sale	29/11/2017	- 13,000	49.46	- 642,980
Shares	Common	Sale	30/11/2017	- 11,500	50.72	- 583,280
Final Balance						
Securities/Derivatives	Securities Characteristics		Quantity	% of participation		
				Same class and type	Total	
Shares	Common		2,574,550	5.14%	5.14%	

Initial balance of November is different from the final balance of October due to the sale of shares by member of the Board of Directors on 10/27/2017 in connection with the transaction disclosed in a Material Fact dated 10.05.2016, where the controlling shareholders of Magnesita and RHI signed an agreement (Share Purchase Agreement or "SPA") with the intention of combining the operations of RHI and the Company to create a leading company in refractory solutions. The transaction was completed and disclosed to the market in Material Fact of 10/27/2017. As a result of this, Dutch Brasil Holding B.V., a subsidiary of RHI Magnesita, acquired 25,020,242 shares of the Company, of which 22,162,520 from the controlling shareholder and the remaining shares from other minority shareholders that joined the SPA. Shareholders received R\$ 17.81 per share of Magnesita (equivalent to EUR4.69, converted by the exchange rate of R \$ 3.9797 per Euro, disclosed by the Central Bank of Brazil on the Closing Date) and 0.1998 shares of RHI Magnesita, per Magnesita' shares. The conditions of this sale followed the conditions offered to the controlling shareholder.

(rest of the page left in blank intentionally – continues on the next page)

Company Name: MAGNESITA REFRAATÓRIOS S.A.					
<input type="checkbox"/> Company and Related People	<input type="checkbox"/> Controlling Group	<input type="checkbox"/> Board of Directors	<input checked="" type="checkbox"/> Executive Officers	<input type="checkbox"/> Fiscal Council	<input type="checkbox"/> Support Committees
Initial Balance					
Securities/Derivatives	Securities Characteristics	Quantity	% of participation		
			Same class and type	Total	
Shares	Common	0	0%	0%	
Final Balance					
Securities/Derivatives	Securities Characteristics	Quantity	% of participation		
			Same class and type	Total	
Shares	Common	0	0%	0%	

(rest of the page left in blank intentionally – continues on the next page)

Company Name: MAGNESITA REFRAATÓRIOS S.A.					
<input type="checkbox"/> Company and Related People	<input type="checkbox"/> Controlling Group	<input type="checkbox"/> Board of Directors	<input type="checkbox"/> Executive Officers	<input checked="" type="checkbox"/> Fiscal Council	<input type="checkbox"/> Support Committees
Initial Balance					
Securities/Derivatives	Securities Characteristics	Quantity	% of participation		
			Same class and type	Total	
Shares	Common	17	0.00%	0.00%	
Final Balance					
Securities/Derivatives	Securities Characteristics	Quantity	% of participation		
			Same class and type	Total	
Shares	Common	17	0.00%	0.00%	

(rest of the page left in blank intentionally – continues on the next page)