FURNACES AND REFRACTORIES

Test your knowledge on furnaces and refractories through this quiz with ten multiple choice questions.

Na	me:			
Or	ganization:			
Da	te:			
1.]	For optimum	fuel consumption, the pressur	e at	which furnaces operate should be
	a. Slightly ne	gative		c. Neutral
	b. Slightly po	sitive		d. Highly positive
	Which of the f	_	t wit	th regard to the energy efficiency
	a. Infiltration exfiltration of	of air is more harmful than air		c. Infiltration and exfiltration of air are equally harmful
	b. Exfiltration infiltration of	n of air is more harmful than air		d. Infiltration and exfiltration of air have no impact
	Which of the f creased by	Collowing statements is <u>not</u> con	rec	t? The thermal efficiency of a furnace is
	a. Increasing	the furnace loading		c. Increasing the excess air flow rate
	b. Reducing t	the surface heat loss		d. Minimizing the CO loss and unburnt loss
4. ′	The axis of the	e burner in a furnace should l	oe k	ept
	a. Slightly in	clined/tilted towards the roof		c. Parallel to the stock
	b. Slightly in	clined/tilted toward the stock		d. Sharply inclined/tilted towards the roof

Test your knowledge: Furnaces and Refractories

5. The emissivity of ceramic coatings used in the furnace										
□ a. D	ecreases with increasing temperatures		c. Remains constant with increasing temperatures							
□ b. In	acreases with increasing temperatures		d. Decreases with increasing furnace presure							
6. The normal operating temperature of a rolling mill furnace is about										
□ a. 80	00 °C		c. 1000 °C							
□ b. 90	O°C		d. 1200 °C							
7. In a reheating furnace, scale losses will										
□ a. In	acrease with excess air		c. Not be impacted by excess air							
□ b. D	ecrease with excess air		d. Increased with nitrogen in the air							
8. The most common form of refractory materials used in the construction of a small furnace is										
		ials	used in the construction of a small							
furnace			used in the construction of a small c. Chrome magnesite bricks							
furnace	is ilica brick									
furnace □ a. Si □ b. Fi	is ilica brick		c. Chrome magnesite bricksd. Calcium silicate bricks							
furnace □ a. Si □ b. Fi	is ilica brick ire brick ina is a type of refract	_ _ tory	c. Chrome magnesite bricksd. Calcium silicate bricks							
furnace □ a. Si □ b. Fi 9. Alumi	is ilica brick ire brick ina is a type of refract		c. Chrome magnesite bricksd. Calcium silicate bricks							
a. Si b. Fi 9. Alumi a. A. b. B. 10. The i	is ilica brick ire brick ina is a type of refract	clory	c. Chrome magnesite bricksd. Calcium silicate bricksc. Neutrald. Inert							
a. Si b. Fi 9. Alumi a. Ad b. B. 10. The respect to	is ilica brick ire brick ina is a type of refract cid asic type of furnace in which preheating of		c. Chrome magnesite bricksd. Calcium silicate bricksc. Neutrald. Inert							

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ANSWERS	ANSWERS						
1. b	2. a	3. c	4. a	5. b			
6. d	7. d	8. b	9. c	10. b			