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API 936 Refractory Personnel

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Question: 15

The most commonly used binder for refractory concrete is

- A. calcium aluminate cement
- B. cements
- C. silicates
- D. all of the above

Answer: A

Question: 16

A combination of refractory grain and suitable bonding agent that, after the addition of a proper liquid, is generally poured into place to form a refractory shape or structure which becomes rigid because of chemical action is called

- A. mortar
- B. castable
- C. ceramic modules
- D. all of the above

Answer: B

Question: 17

Compositions of ground refractory materials develop a strong bond at air ambient temperatures by virtue of chemical reactions within the binder phase that is usually activated by water additions. These refractories include cement and phosphate bonded castables is called:

- A. Air setting refractories
- B. Heat setting refractories
- C. Air and heat setting refractory
- D. None of the above

Answer: A

Question: 18

Compositions of ground refractory materials which require relatively high temperatures for the development of an adequate bond (commonly called the ceramic bond) is called

- A. air setting refractories
- B. heat setting refractories
- C. air and heat setting refractories
- D. none of the above

Answer: B

Question: 19

Alumina C silica refractories containing 45% or more alumina, materials used in their production include diaspore, bauxite, gibbsite, kyanite, sillimanite, alusite, and fused alumina (artificial corundum) is called

- A. fire clay refractory
- B. insulating refractories
- C. high alumina refractories
- D. all of the above

Answer: C

Question: 20

A high alumina mineral usually consists of rounded concretionary grains embedded in clay-like mass and is believed to consist essentially of alumina trihydrate ($\text{Al}_2\text{O}_3 \cdot \text{H}_2\text{O}$) and alumina hydrate ($\text{Al}_2\text{O}_3 \cdot \text{H}_2\text{O}$) in varying proportions is called

- A. kyanite
- B. bauxite
- C. fused alumina
- D. alusite

Answer: B

Question: 21

Commercially on calcined basis bauxite must contain at least

- A. 65% fused silica
- B. 60% alumina
- C. 65% alumina
- D. None of the above

Answer: C

Question: 22

A natural or synthetic mineral theoretically consisting solely of alumina (Al_2O_3), specific gravity 4.00 C 4.02, melting point 3720?

F. (2050? C) Hardness 8.8 is called

- A. Corundum
- B. Kaolin
- C. Mica
- D. None of the above

Answer: A

Question: 23

The selected compression test section of the specimen for the CCs test shall be free from

- A. cCracks
- B. Chipped surfaces

- C. Other obvious defects
- D. All of the above

Answer: D

Question: 24

The test specimen of castable refractory for cold crushing strength shall be

- A. 2 in. (51mm) cubes
- B. Cylinders, 2 in. (51mm) in dia. by 2 in. (51 mm) height
- C. a or b
- D. none of the above

Answer: C

Question: 25

In API RP 936, the referenced ASTM standard procedure for cold crushing strength and modulus of rupture is

- A. C 133 C 97
- B. C704 C 01
- C. C181 C 91
- D. None of the above

Answer: A

Question: 26

Refractories whose major constituent is lime, magnesia, or both and which may react chemically with acid refractories, acid slags, or acid fluxes at a high temperature is known as

- A. Acid refractories
- B. Basic refractories
- C. Natural refractories
- D. None of the above

Answer: B

Question: 27

Refractories containing a substantial amount of silica which is reactive with basic refractories, basic slags, or basic fluxes at high temperatures are known as

- A. Acid refractories
- B. Basic refractories
- C. Natural refractories
- D. None of the above

Answer: A

Question: 28

Cristobalite is an important constituent of

- A. Alumina bricks
- B. Silica brick
- C. Magnesite brick
- D. Insulating brick

Answer: B

Question: 29

A group of impure magnesium silicate minerals that occur in a fibrous form is known as

- A. Asbestos
- B. Mineral fibre
- C. Fused silica
- D. None of the above

Answer: A

Question: 30

A group of rock minerals having nearly perfect cleavage in one direction and consisting of thin elastic plates and the most common varieties are muscovite and biotite is called

- A. Corundum
- B. Kaolin
- C. Mica
- D. None of the above

Answer: C

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