Technical

Specifications

United States Gypsum Company

Industrial Gypsum Division 125 South Franklin Street Chicago, IL 60606-4678 Technical Assistance: (800) 487-4431

Industrial Plasters and Gypsum Cements for the Dental Industry

HYDROCAL 105 Gypsum Cement

A formulated HYDROCAL cement for dental stones with controlled expansion. Colored yellow for identification.

HYDROCAL 106 Gypsum Cement

Same as HYDROCAL 105 cement but not colored yellow.

HYDROCAL X-21 Gypsum Cement

A harder, denser HYDROCAL cement for stones. Also controlled for expansion.

HYDROCAL B-Base Gypsum Cement

A base HYDROCAL cement which can be formulated by the customer for particular dental stone properties.

HYDROCAL C-Base Gypsum Cement

A harder, denser base HYDROCAL cement which can be formulated by the customer.

Regular Dental Plaster

A general purpose dental plaster with a moderately slow setting time. Similar to moulding plaster.

Lab Dental Plaster

Same as Regular Dental Plaster but with a faster setting time.

Impression Dental Plaster

Designed for oral impression work. Very fast setting time.

Typical Physical Properties

Gypsum Cements

HYDROCAL Type	105	106	X-21	B-Base	C-Base
Fineness		777	*		
On 30 mesh, max. %	0.05	0.05	0.05	0.05	0.05
Through 100 mesh, min. %	99.00	99.00	99.00	99.00	99.00
Expansion %	0.20	0.20	0.10	0.42	0.35
Normal consistency, cc	40-42	40-42	36	40-42	36
Vicat set, min.	7-10	7-10	10-15	20-35	20-35
1 hour compressive strenth, psi	3,000	3,000	3,500	3,000	3,500
Dry compressive strength, psi	6,000	6,000	7,000	6,000	7,000
Color	Yellow	White	White	White	White

Industrial Plasters

	Regular Dental	Lab Dental	Impression Dental
Fineness			
On 30 mesh, max. %	0.05	0.05	0.05
Through 100 mesh, min. %	98.50	98.50	98.50
Expansion %	0.20		
Normal consistency, cc	62-66	62-66	62-66
Vicat set, min.	19-22	6-9	3.5-5
Dry compressive strength, psi	2,000	2,000	2,000
Color	White	White	White

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