GUIDE TO DENTAL STONES and PLASTERS

DENTAL STONES

Ainsworth Bluestone



Product Sizes
20kg Pail
20kg Bag
5kg Pail

Physical Properties	
Colour:	Blue
Mixing Time:	30-60 secs
Working Time:	6-7 mins
Setting Time:	9-12 mins
Water ratio for 100g powder:	30-32mls
Maximum setting expansion:	0.20%
Compressive Strength at 1 hour:	21 MPa
Compressive Strength at 24 hrs:	41 MPa
Hardness:	Hard

Usage

General purpose model making. Easy to pour & grind. Creates models with a beautiful smooth blue finish

Ainsworth Buffstone



Product Sizes
20 kg Pail
20 kg Bag
5kg Pail

Physical Properties	
Colour:	Cream
Mixing Time:	30-60 secs
Working Time:	6-7 mins
Setting Time:	9-12 mins
Water ratio for 100g powder:	30-32 mls
Maximum setting expansion:	0.20%
Compressive Strength at 1 hour:	21 MPa
Compressive Strength at 24 hrs:	41 MPa
Hardness:	Hard

Usage

Ideal for Laboratory processing, good hardness, good fluidity, low expansion.

Ainsworth DiamondRock



Product Size
5kg Pail

Physical Properties	
Colour:	Golden Brown
Mixing Time:	30-60 secs
Working time:	8-9 mins
Setting Time:	11-12 mins
Water ration for 100g powder:	19-20 mls
Maximum setting expansion:	0.07%
Compressive Strength at 1 hour:	62 MPa
Compressive Strength at 24 hrs:	108 MPa

Usage

Ideal for all Crown & Bridge work, & also suitable for other work when maximum accuracy is required.

Ainsworth Greenstone



Product Sizes

20 kg Pail
20 kg Bag
5 kg Pail

Physical Properties

Colour:	Green
Mixing Time:	30-60 secs
Working Time:	6-7 mins
Setting time:	9-12 mins
Water ratio for 100g powder:	28-30 mls
Maximum setting expansion:	0.16%
Compressive Strength at 1 hour:	26 MPa
Compressive Strength at 24 hrs:	52 MPa
Hardness:	Extra Hard

Usage

Ideal for Laboratory processing, good hardness, good fluidity, low expansion.

Ainsworth Hardstone



Product Sizes

20 kg Pail
20 kg Bag
5 kg Pail

Physical Properties

Colour:	White
Mixing Time:	30-60 secs
Working Time:	6-7 mins
Setting time:	8-12 mins
Water ratio for 100g powder:	24-26 mls
Maximum setting expansion:	0.32%
Compressive Strength at 1 hour:	28 MPa
Compressive Strength at 24 hrs:	58 MPa
Hardness:	Extra Hard

Usage

Most common uses include casts, extra hard working models, harder than green/ yellow/buff stones

Ainsworth Orthostone



Product Sizes

20 kg Pail
20 kg Bag
5 kg Pail

Physical Properties

Colour:	White
Mixing Time:	30-60 secs
Working Time:	6-7 mins
Setting time:	7-10 mins
Water ratio for 100g powder:	33-35 mls
Maximum setting expansion:	0.20%
Compressive Strength at 1 hour:	21 MPa
Compressive Strength at 24 hrs:	41 MPa
Hardness:	Hard

Usage

For Orthodontics casts & study models, easy to mix, good fluidity, harder than ordinary orthodontic plaster. Easy to grind & polish. Shiny, ultra white surface.

Ainsworth
Pink Diestone



Product Sizes
20 kg Pail
20 kg Bag
5 kg Pail

Physical Properties

Colour:	Pink
Mixing Time:	30-60 secs
Working Time:	7-9 mins
Setting time:	10-12 mins
Water ratio for 100g powder:	24-26 mls
Maximum setting expansion:	0.10%
Compressive Strength at 1 hour:	26 MPa
Compressive Strength at 24 hrs:	50 MPa
Hardness:	Extra Hard

Usage
Used for Crown, Bridge & Chromework, high accuracy of fit as a result of low setting expansion, very smooth & very hard surface.

Ainsworth
Yellowstone



Product Sizes
20 kg Pail
20 kg Bag
5 kg Pail

Physical Properties

Colour:	Yellow
Mixing Time:	30-60 secs
Working Time:	6-7 mins
Setting time:	9-12 mins
Water ratio for 100g powder:	28-30 mls
Maximum setting expansion:	0.16%
Compressive Strength at 1 hour:	25 MPa
Compressive Strength at 24 hrs:	51 MPa
Hardness:	Extra Hard

Usage
Ideal for Laboratory processing, most popular colour, good hardness, good fluidity, low expansion.

Investo
Flintstone



Product Sizes
20 kg Pail
20 kg Bag
5 kg Pail

Physical Properties

Colour:	Pink
Mixing Time:	30-60 secs
Working Time:	6-7 mins
Setting time:	7-10 mins
Water ratio for 100g powder:	25-27 mls
Maximum setting expansion:	0.30%
Compressive Strength at 1 hour:	25 MPa
Compressive Strength at 24 hrs:	46 MPa
Hardness:	Hard

Usage
Ideal for making Stone dies & models for indirect lay & bridge techniques, when exceptionally hard surfaces & compensating expanding models are indicated

Investo Greenstone



Product Sizes
20 kg Pail
20 kg Bag
5 kg Pail

Physical Properties	
Colour:	Green
Mixing Time:	30-60 secs
Working Time:	6-7 mins
Setting time:	8-12 mins
Water ratio for 100g powder:	28-30 mls
Maximum setting expansion:	0.16%
Compressive Strength at 1 hour:	26 MPa
Compressive Strength at 24 hrs:	52 MPa
Hardness:	Extra Hard

Usage

Ideal for all Dental Materials, when extra hard models & minimum contraction is essential

Investo White Diestone



Product Sizes
20 kg Pail
20 kg Bag
5 kg Pail

Physical Properties	
Colour:	White
Mixing Time:	30-60 secs
Working Time:	6-7 mins
Setting time:	8-11 mins
Water ratio for 100g powder:	24-26 mls
Maximum setting expansion:	0.35%
Compressive Strength at 1 hour:	28 MPa
Compressive Strength at 24 hrs:	58 MPa
Hardness:	Extra Hard

Usage

Ideal for Acrylic denture processing, when extra hard expanding models are indicated

Investo Yellowstone



Product Sizes
20 kg Pail
20 kg Bag
5 kg Pail

Physical Properties	
Colour:	Yellow
Mixing Time:	30-60 secs
Working Time:	6-7 mins
Setting time:	8-10 mins
Water ratio for 100g powder:	32-34 mls
Maximum setting expansion:	0.35%
Compressive Strength at 1 hour:	15 MPa
Compressive Strength at 24 hrs:	28 MPa
Hardness:	Medium Hard

Usage

Ideal for making Models, when maximum setting expansion of stone is indicated. Recommended for Acrylic Dentures

PLASTERS

Ainsworth Dental Plaster



Product Sizes
20 kg Pail
20 kg Bag
5 kg Pail

Physical Properties

Colour:	Off-White
Mixing Time:	30-60secs
Working time:	6-7 mins
Setting time:	8-10 mins
Water ratio for 100g powder:	45-50 mls
Maximum setting expansion:	0.24%
Compressive Strength at 1 hour:	10 MPa
Compressive Strength at 24 hrs:	15 MPa

Usage
Economy plaster, ideal for all general laboratory work, low expansion, excellent positioning, hard & smooth when set enabling easy trimming & sanding for excellent finish

Ainsworth Superwhite Plaster



Product Sizes
20 kg Pail
20 kg Bag
5 kg Pail

Physical Properties

Colour:	White
Mixing time:	30-60 secs
Working time:	6-7 mins
Setting time:	7-9 mins
Water ratio for 100g powder:	40-45 mls
Maximum setting expansion:	0.20%
Compressive Strength at 1 hour:	9 MPa
Compressive Strength at 24 hrs:	14 MPa

Usage
Medical grade superfine, extra-white, stronger plaster for study models & Orthodontic work

Investo Art Plaster



Product Sizes
20 kg Pail
20 kg Bag
5 kg Pail

Physical Properties

Colour:	White
Mixing time:	30-60 secs
Working time:	6-7 mins
Setting time:	7-9 mins
Water ratio for 100g powder:	40-45 mls
Maximum setting expansion:	0.20%
Compressive Strength at 1 hour:	9 MPa
Compressive Strength at 24 hrs:	14 MPa

Usage
Premium grade, extra-white, strong for study models & Orthodontic work. Used in production of limb supports & hearing aids

Investo FFF Plaster



Product Sizes
20 kg Pail
20 kg Bag
5 kg Pail

Physical Properties	
Colour:	Off-White
Mixing time:	30-60 secs
Working time:	6-7 mins
Setting time:	8-10 mins
Water ratio for 100g powder:	45-50 mls
Maximum setting expansion:	0.24%
Compressive Strength at 1 hour:	10 MPa
Compressive Strength at 24 hrs:	15 MPa

Usage

Ideal for all general Laboratory work, low expansion, excellent positioning, hard & smooth when set, enabling easy trimming & sanding for an excellent finish. Also used to produce craft models

Investo Orthoplaster



Product Sizes
20 kg Pail
20 kg Bag
5 kg Pail

Physical Properties	
Colour:	White
Mixing time:	30-60 secs
Working time:	5-6 mins
Setting time:	7-9 mins
Water ratio for 100g powder:	32-34 mls
Maximum setting expansion:	0.30%
Compressive Strength at 1 hour:	18 MPa
Compressive Strength at 24 hrs:	33 MPa

Usage

Premium dental plaster/stone composite. It features the strength of stone & flexibility of plaster. For orthodontic study models, easy to mix, good fluidity.

Investo Patternstone H

Product Sizes
22.5 kg Pail
22.5kg Bag

Physical Properties	
Colour:	White
Mixing time:	30-60 secs
Working time:	12-15 mins
Setting time:	17-20 mins
Water ratio for 100g powder:	21mls
Maximum setting expansion:	0.24%
Compressive Strength at 1 hour:	28 MPa
Compressive Strength at 24 hrs:	70 MPa

Usage

Resists yellowing when exposed to sunlight. Formulation minimizes color variations. Used in high-quality figurines or whenever coloring is a factor.

Investo Patternstone B

Product Sizes

22.5 kg Pail
22.5kg Bag

Physical Properties

Colour:	White
Mixing time:	30-60 secs
Working time:	18-25 mins
Setting time:	25-35 mins
Water ratio for 100g powder:	45mls
Maximum setting expansion:	0.39%
Compressive Strength at 1 hour:	7 MPa
Compressive Strength at 24 hrs:	35 MPa

Usage

Resists yellowing when exposed to sunlight. Formulation minimizes color variations. Used in high-quality figurines or whenever coloring is a factor.