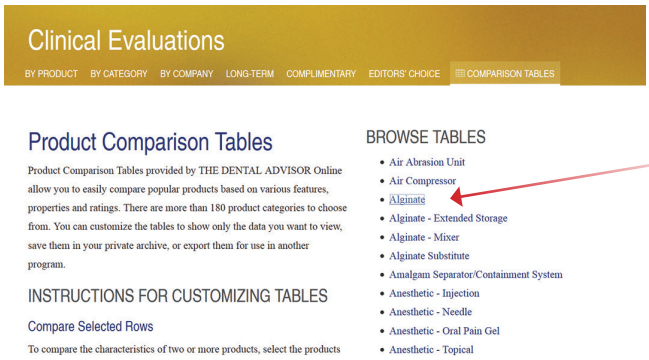
FROM OUR LABORATORIES

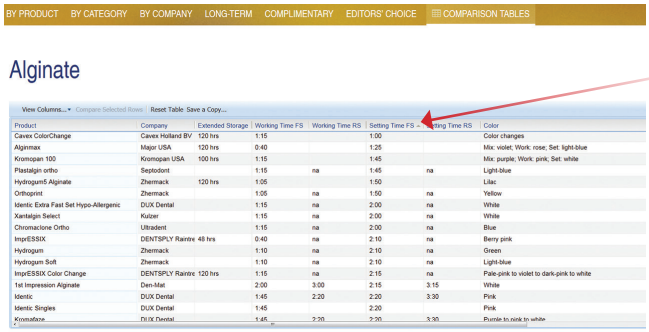
Features and Use of the Product Comparison Tables:

THE DENTAL ADVISOR provides tables covering **more than 180 product categories** to quickly compare similar products. With the tables, you can sort by clinical rating, and features such as setting time, or material properties tested in our lab.

For instance, if one were interested in **comparing alginates based on its setting time,** follow these steps:



Click on "Alginate"



Product	Company	Extended Storage	Working Time FS	Working Time RS	Setting Time FS	Setting Time RS	Color
Cavex ColorChange	Cavex Holland BV	120 hrs	1:15		1:00		Color changes
Alginmax	Major USA	120 hrs	0:40		1:25		Mix: violet; Work: rose; Set: light-blue
Kromopan 100	Kromopan USA	100 hrs	1:15		1:45		Mix: purple; Work: pink; Set: white
Plastalgin ortho	Septodont		1:15	na	1:45	na	Light-blue
Hydrogum5 Alginate	Zhermack	120 hrs	1:05		1:50		Lilac
Orthoprint	Zhermack		1:05	na	1:50	na	Yellow
Identic Extra Fast Set Hypo-Allergenic	DUX Dental		1:15	na	2:00	na	White
Xantalgin Select	Kulzer		1:15	na	2:00	na	White
Chromaclone Ortho	Ultradent		1:15	na	2:00	na	Blue
ImprESSIX	DENTSPLY Raintre	48 hrs	0:40	na	2:10	na	Berry pink
Hydrogum	Zhermack		1:10	na	2:10	na	Green
Hydrogum Soft	Zhermack		1:10	na	2:10	na	Light-blue
ImprESSIX Color Change	DENTSPLY Raintre	120 hrs	1:15	na	2:15	na	Pale-pink to violet to dark-pink to white
1st Impression Alginate	Den-Mat		2:00	3:00	2:15	3:15	White
Identic	DUX Dental		1:45	2:20	2:20	3:30	Pink
Identic Singles	DUX Dental		1:45		2:20		Pink
Kromatone	DUX Dental		1:45	2:20	2:20	3:30	Purple to pink to white

Click on "Setting Time FS"

Note: FS refers to "Fast Set" versions and "RS" refers to "Regular Set" versions.

What to look at from the labs throughout 2017:
Matt Cowen has recently completed training for use in Atomic Force Microscopy (AFM) at the University of Michigan Materials Characterization lab. This technique can be used to create highly accurate topographic 3D maps of surfaces and measure the viscoelastic properties (i.e. modulus) of individual molecules. This technique can be applied to comparing finishing and polishing systems, filler particle vs. resin dispersion characteristics, changes in surface characteristics after reprocessing and much more.

We'll also continue to test new products that have been recently released to update our comparison tables. We are ramping up various projects to present at conferences such as SCAD (Society for Color and Appearance in Dentistry), AAED (American Academy of Esthetic Dentistry) and 2018 AADR (American Association for Dental Research).

These projects will include comparing the translucency and esthetics of resin-ceramic restoratives and polymerization of cements through commonly used ceramics.

Dimensional Icon Atomic Force Microscope

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THE DENTAL ADVISOR™

Since1983, THE DENTAL ADVISOR has been a trusted expert to dental professionals worldwide with concise, accurate, and objective information. We combine clinical experience with laboratory data and report on long-term in-vivo performance of materials over time.

THE DENTAL ADVISOR Biomaterials Research Center and Infection Control Research Center provide custom laboratory testing of commercial and experimental restorative dental materials for dental manufacturers.