

SUPPLEMENTARY INFORMATION

Supplementary Table S1. Mean overall Macpherson modification of the Lobene stain index ($A \times I$) ($\pm$ standard deviation) at each timepoint (modified intent-to-treat population)

	RDA~38, 0.5% SS (n=31)	RDA~58, 1% SS/5% STP (n=31)	RDA~36, 6% AS (n=30)	RDA~166, 16% AS/5% STP (n=31)
Baseline	1.92 (1.278)	2.03 (1.153)	1.73 (0.735)	1.67 (0.837)
Week 2	1.91 (1.059)	1.85 (0.833)	1.76 (0.710)	1.63 (0.665)
Week 4	1.61 (0.922)	1.59 (0.645)	1.58 (0.656)	1.50 (0.635)
Week 8	1.57 (0.943)	1.48 (0.782)	1.40 (0.712)	1.34 (0.694)

AS: abrasive silica; RDA: Relative dentin abrasivity; SS: spherical silica; STP: sodium tripolyphosphate

Supplementary Table S2. Mean overall Turesky Plaque Index (TPI) score and change from pre-brushing to post-brushing adjusted mean overall TPI score^a at baseline and Week 8 (modified intent-to-treat population)

	RDA~38, 0.5% SS (n=31)	RDA~58, 1% SS/5% STP (n=31)	RDA~36, 6% AS (n=30)	RDA~166, 16% AS/5% STP (n=31)
Baseline				
Raw mean pre-brushing score (SD)	3.08 (0.370)	2.84 (0.275)	3.01 (0.359)	2.94 (0.297)
Raw mean post-brushing score (SD)	2.48 (0.414)	2.15 (0.368)	2.40 (0.459)	2.24 (0.336)
Adjusted change from pre-brushing to post-brushing score (SE)	-0.61 (0.042)	-0.69 (0.042)	-0.61 (0.042)	-0.69 (0.041)
95% Confidence Intervals	-0.69, -0.52	-0.77, -0.61	-0.69, -0.53	-0.77, -0.61
P-value ^a	<0.0001	<0.0001	<0.0001	<0.0001
Week 8				
Raw mean pre-brushing score (SD)	3.22 (0.363)	2.86 (0.266)	3.11 (0.358)	2.85 (0.324)
Raw mean post-brushing score (SD)	2.60 (0.446)	2.21 (0.429)	2.61 (0.406)	2.22 (0.354)
Adjusted change from pre-brushing to post-brushing score (SE)	-0.46 (0.059)	-0.66 (0.060)	-0.38 (0.060)	-0.73 (0.059)
95% Confidence Intervals	-0.58, -0.34	-0.77, -0.54	-0.50, -0.26	-0.84, -0.61
P-value ^a	<0.0001	<0.0001	<0.0001	<0.0001

^aFrom analysis of covariance model with treatment and Macpherson modification of the Lobene stain index stratification as fixed effects and appropriate pre-brush TPI as a covariate. A reduction in TPI score indicates improved plaque control.

AS: abrasive silica; RDA: relative dentin abrasivity; SD: standard deviation; SE: standard error; SS: spherical silica; STP: sodium tripolyphosphate