

Supplement Table 1: Means \pm SD for instrumental texture attributes, water absorption capacity (WAC), and water content for Wholewheat = W and Sourdough = S breads, in different slice thicknesses without margarine.

N = 3	W1_M0	W2_M0	W4_M0	S1_M0	S2_M0	S4_M0	P _{bread}	P _{thickness}	P _{bread x thickness}
Hardness [g]	374 \pm 119	400. \pm 116	411 \pm 118	915 \pm 67	839 \pm 100	958 \pm 52	<0.001	0.78	0.17
Chewiness [g]	315 \pm 79	306 \pm 78	307 \pm 77	682 \pm 54	629 \pm 69	693 \pm 38	<0.001	0.71	0.30
Springiness [-]	0.96 \pm 0.0	0.96 \pm 0.0	0.94 \pm 0.0	0.95 \pm 0.0	0.95 \pm 0.0	0.95 \pm 0.0	0.29	0.03	0.04
Cohesiveness [-]	0.89 \pm 0.1	0.81 \pm 0.0	0.81 \pm 0.1	0.79 \pm 0.0	0.79 \pm 0.0	0.76 \pm 0.0	0.02	0.17	0.09.
Adhesiveness[g*sec]	-0.09 \pm 0.2	-0.19 \pm 0.3	-1.17 \pm 1.3	-10.3 \pm 1.7	-5.69 \pm 4.2	-4.16 \pm 2.1	<0.001	0.07	0.01
WAC [g/g]	3.15 \pm 0.2	2.99 \pm 0.1	2.58 \pm 0.13	1.65 \pm 0.1	1.3 \pm 0.1	1.18 \pm 0.1	<0.001	0.27	0.41
Water content [w/w%]	48.7 \pm 0.5	47.9 \pm 0.3	48.1 \pm 0.14	48.2 \pm 0.3	47.2 \pm 1.6	47.7 \pm 0.3	0.91	0.90	0.94

Supplement Table 2: Means \pm SEM of sensory texture attributes of WB differing in thickness and addition of margarine.

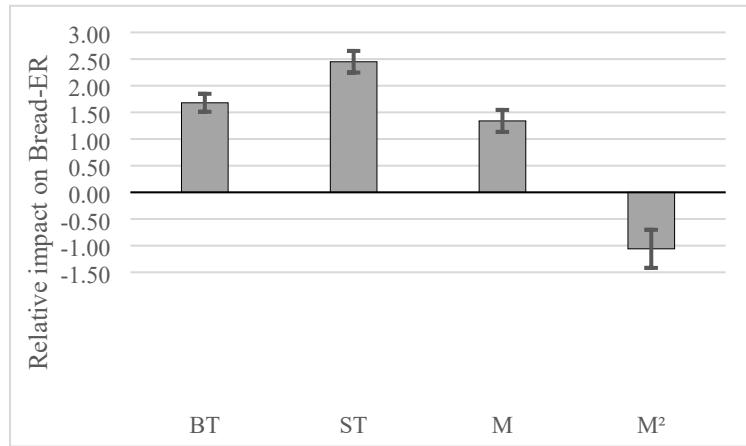
N=30	W1_M0	W1_M2	W1_M4	W2_M0	W2_M2	W2_M4	W4_M0	W4_M2	W4_M4	P _{thickness}	P _{margarine}	P _{thickness} x mar
Hardness	24 \pm 3	19 \pm 4	18 \pm 3	30 \pm 4	30 \pm 4	24 \pm 3	43 \pm 4	37 \pm 4	29 \pm 4	<0.001	0.007	0.49
Denseness	31 \pm 4	23 \pm 4	20 \pm 4	36 \pm 4	28 \pm 3	31 \pm 4	55 \pm 5	39 \pm 4	34 \pm 4	<0.001	<0.001	0.09
Adhesiveness	45 \pm 4	36 \pm 4	29 \pm 4	52 \pm 4	38 \pm 4	35 \pm 3	55 \pm 4	45 \pm 4	40 \pm 4	0.002	<0.001	0.90
Chewiness	40 \pm 3	25 \pm 4	22 \pm 3	54 \pm 4	40 \pm 4	33 \pm 4	69 \pm 4	52 \pm 4	49 \pm 4	<0.001	<0.001	0.93
Dryness	60 \pm 4	28 \pm 4	29 \pm 5	70 \pm 3	39 \pm 5	30 \pm 5	68 \pm 4	45 \pm 4	37 \pm 4	0.006	<0.001	0.32
Crumbliness	42 \pm 5	32 \pm 4	25 \pm 4	41 \pm 4	29 \pm 4	35 \pm 5	53 \pm 4	38 \pm 4	40 \pm 4	<0.001	<0.001	0.21

Supplement Table 3: Means \pm SEM of sensory texture attributes of SB differing in thickness and addition of margarine.

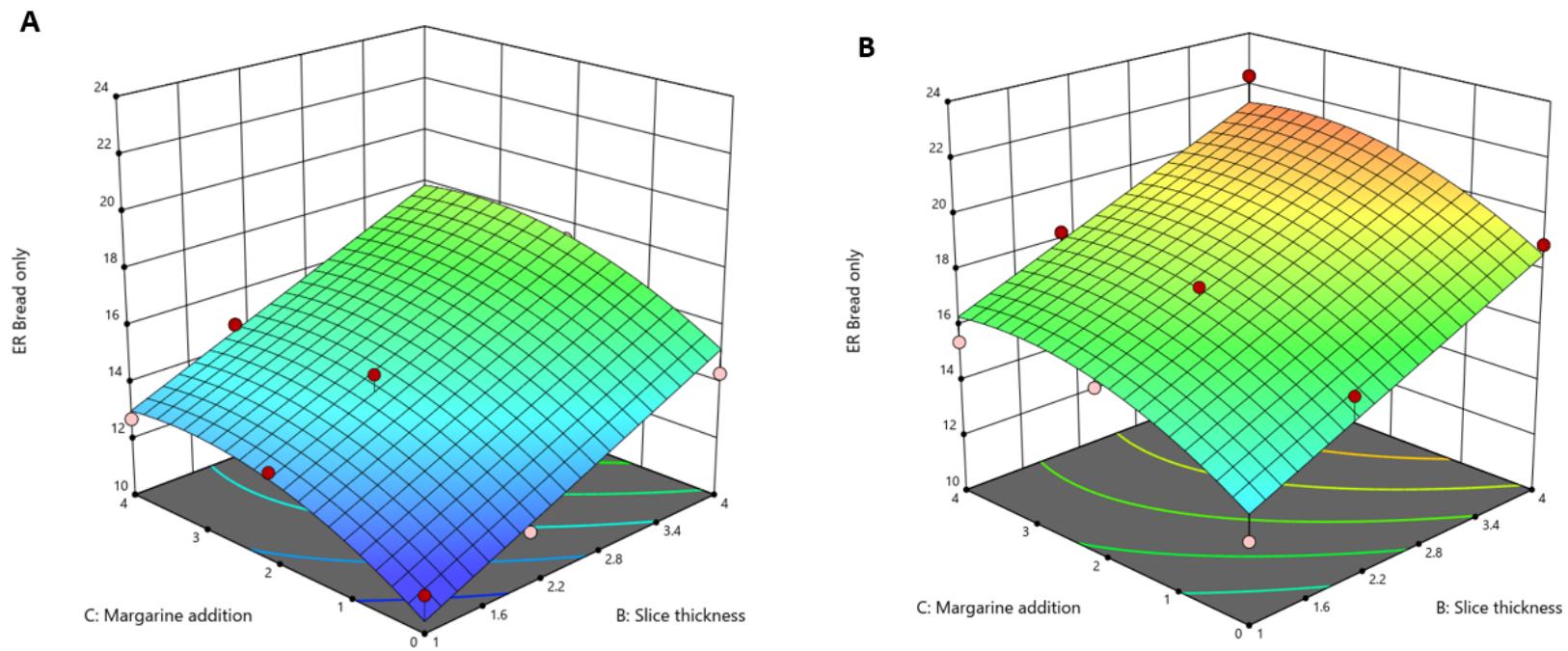
N=30	S1_M0	S1_M2	S1_M4	S2_M0	S2_M2	S2_M4	S4_M0	S4_M2	S4_M4	P _{thickness}	P _{margarine}	P _{thickne}
												ss x mar
Hardness	45 \pm 4	33 \pm 4	30 \pm 4	47 \pm 3	47 \pm 4	42 \pm 4	57 \pm 4	49 \pm 5	46 \pm 4	<0.001	0.002	0.23
Dense ness	56 \pm 4	50 \pm 4	43 \pm 5	60 \pm 4	61 \pm 4	57 \pm 4	69 \pm 4	62 \pm 5	61 \pm 4	<0.001	0.021	0.51
Adhesiveness	58 \pm 4	39 \pm 4	34 \pm 4	56 \pm 4	49 \pm 4	34 \pm 3	57 \pm 4	47 \pm 5	45 \pm 4	0.041	<0.001	0.12
Chewiness	57 \pm 4	39 \pm 4	36 \pm 3	66 \pm 4	59 \pm 3	50 \pm 4	78 \pm 3	70 \pm 4	64 \pm 4	<0.001	<0.001	0.27
Dryness	52 \pm 5	26 \pm 4	23 \pm 4	50 \pm 5	36 \pm 4	25 \pm 3	51 \pm 5	39 \pm 5	37 \pm 5	0.027	<0.001	0.06
Crumbliness	42 \pm 4	27 \pm 4	28 \pm 4	33 \pm 4	31 \pm 4	28 \pm 4	36 \pm 5	30 \pm 4	30 \pm 4	0.91	0.026	0.21

Supplement Table 4: Significant predictors of ER (bread only) and fit statistics of the reduced RSM. (BT: Bread type, ST: Slice thickness, M: Margarine addition), (n=30).

Source	p-value	Coefficient	Standard
		Estimate	Error
BT	< 0.001	1.68	0.17
ST	< 0.001	2.45	0.20
M	< 0.001	1.34	0.21
M ²	0.011	-1.06	0.36
Fit statistics	value		
Model p-value	< 0.001		
R ²	0.958		
Adjusted R ²	0.945		
Predicted R ²	0.917		
Signal/Noise	29.0		



Supplement Figure 1: Relative impact of the predictors on ER ('bread only') (n=30).
(BT: Bread type, ST: Slice thickness, MA: Margarine addition, error bars represent standard errors).



Supplement Figure 2: Surface plots of the RSM of ER ('bread only') for wheat bread (A) and sourdough bread (B) ($n=30$).