

Emulsification and Stabilization in Vegan Gochujang Mayonnaise with TYLOPUR® NE-4000

TYLOPUR® NE-4000 provides excellent emulsification and stabilization to emulsified sauces like vegan mayonnaise. Omit the egg yolk using **TYLOPUR® NE-4000** and use less oil in your product to achieve the same creamy mouthfeel.

Benefits

Vegan	TYLOPUR® NE-4000 allows you to remove animal-based products like egg yolks from your emulsion sauces
Great Mouthfeel	TYLOPUR® NE-4000 gives emulsion sauces the same great mouthfeel with no animal products and less oil
Great Stabilization	TYLOPUR® NE-4000 stabilizes emulsion sauces and provides excellent freeze/thaw stability

Case Study

The performance of **TYLOPUR® NE-4000**, which is a hydroxypropyl methylcellulose (E464), is shown in vegan gochujang mayonnaise.

Ingredients	[%]
Water	29.5
Vegetable Oil	23.6
Gochujang	21
Rice Vinegar	10
Sugar	10
Sesame Oil	2
Garlic Powder	1.6
TYLOPUR® NE-4000	1.1
Salt	1
Xanthan Gum	.2
Total	100

Table 1: Gochujang Mayonnaise Recipe

- Combine vegetable oil, vinegar, sugar, sesame oil, garlic powder, TYLOPUR® NE-4000, salt, and xanthan gum in the bowl of a high shear mixer.
- 2. Mix all of the ingredients together until all are incorporated.
- While streaming in the water slowly, mix in the high shear mixer for 1-2 minutes or until the blend emulsifies and resembles mayonnaise.

- 4. Add in the gochujang and blend further until fully incorporated.
- 5. Serve with steamed plant-based wontons and enjoy!



Figure 1: Gochujang mayonnaise made with TYLOPUR® NE-4000 served alongside steamed plant-based wontons made with TYLOPUR® MCE-100TS

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