

## NORSE-MPC

### PRODUCTION PROCESS

Norse-MPC is a marine protein concentrate based on category 3 by-product of salmon mixed with 2 % formic acid. By hydrolyzing the silage with the natural enzymes of the fish, the proteins are split and thereby increasing the feed value. It has a high protein digestion with a very stabile amino acid and fatty combination. As a result of heat treatment, low pH and antioxidants, Norse-MPC is very stable for storage.

SPECIFICATIONS	MIN	TYPICAL	MAX
Protein		35,0 %	
Fat (Soxhlet)		4,0 %	
Ash		6,0 %	
Salt (NaCl)		1,75 %	
Dry Matter		50,0 %	
pH			4,0
Cadaverine			0,9 g/kg
Histamine			0,3 g/kg
Biological digestible protein (mink)	90,0 %		
Salmonella		not detected	
Antioxidant		added	
Contaminants		EU limits	

### APPLICATIONS

Norse-MPC is used as a feeding supplement for fish, pigs, poultry, pets and fur animals. It is an excellent protein source in fish feed (excluding salmon feed). Norse-MPC is in liquid form with a dry matter ingredient of approx. 50 %. The product contains proteins with good technical properties. This gives improved pellet quality when used as additive in dry feed.

AMINO ACIDS, AVERAGE VALUES	g/100g PRODUCT	MINERALS	%
Lysine	2,3	Calcium	0,8
Methionine	1,0	Phosphorus	0,6
Cystine	0,4	Sodium	0,7
Arginine	2,0	Potassium	0,6
Threonine	1,6		
Thryptophan	0,3		
Aspartic acid	3,0		
Glutamic acid	4,1		
Glycine	2,6		
Histidine	0,8		
Alanine	2,0		
Proline	1,7		
Tyrosine	0,9		
Valine	1,7		
Isoleucine	1,3		
Leucine	2,3		
Phenylalanine	1,3		