Pat Coleby Free Choice Mineral Breakdown

Disclaimer: All animal feed products should be fed as part of a healthy balanced diet matched to the specific requirements of the herd. Integrity Soils makes no representations or warranties of any kind, express or implied, as to the suitability of any of the products supplied to the specific requirements of your animals. Please note that recommended feeding rates are given as a guideline only and will vary based on the total diet and actual feed intake of your animals. It is recommended that you consult your vet, nutritionist or farm consultant before making any dietary changes.

Pat Coleby's recipe is 25 kg/lb dolomite + 4 kg/lb copper sulfate + 4 kg/lb sulfur + 4 kg/lb kelp

> *Other additives may include; biotin, cobalt sulphate, rosehips, organic feed grade Selenium or yeast depending on forage testing.*

Dolomite- High Mg dolomite (12%) with 2:1 Ca:Mg (not to be substituted with other Mg sources)

Copper Sulfate Pentahydrate: $CuSO_4 \cdot 5H_2O$. fine crystals

Sulphur – Ag Feed grade sulfur - powder

Kelp –high quality seaweed products, with no flowing agents or added minerals

Do not include additives to increase palatability.

Mix MUST be kept dry. This is to be offered free choice, sometimes stock may be slow to take to it, if so double seaweed for first few weeks, then cut back to this recipe.

This breakdown is based on using minerals in NZ and Australia (with Icelandic kelp!) Ensure local suppliers can source as similar raw minerals as possible.

	Pat Coleby Mix As-Fed based on 15gm or ½ oz/day	Thorvin Kelp	Pat Coleby Mix as mixed
Salt	85 ppm	9%	0.99%
Zinc	0.012 ppm	12 ppm	1.2 ppm
Iron	0.60 ppm	622 ppm	68 ppm
Manganese	0.06 ppm	60 ppm	6.6 ppm
Magnesium	0.06%	0.85%	7.53%
Iodine	0.45 ppm	0.05%	0.01%
Cobalt	0.003 ppm	4 ppm	0.44 ppm
Selenium	0.0003 ppm	0.3 ppm	0.033 ppm
Calcium	0.12%	2%	14%
Phosphorus	0.001	0.1%	0.01%
Potassium	—	2%	0.22%
Copper	180 ppm	4 ppm	27,027 ppm
Molybdenum	0.003 ppm	2 ppm	0.22 ppm
Chlorine	60 ppm	6.5%	0.72%
Sulfur	0.09%	2.8%	12.2%
Aluminum	0.27 ppm	289 ppm	31.8 ppm
Boron	0.09 ppm	98 ppm	11 ppm