

Diamond Information Sheet

ENERGY

The capacity to perform work; available power. Energy is found in various forms: motion, heat, sound.

NET ENERGY (NE)

Represents the energy fraction in the feed that is left after fecal, urinary, gas and heat losses are deducted from the gross energy. Net energy is more accurate in measuring the real value of feed.

METABOLIZABLE ENERGY (ME)

Metabolizable energy is the portion of gross energy that is not lost in the feces, urine and gas.

PROTEIN

Needed to replace the daily breakdown of tissues within the body; muscles, blood, hair and hooves.

MINERALS

Inorganic substances needed to perform certain essential body functions. They provide structural materials for bones and teeth, and they aid in body fluid regulation.

VITAMINS

Complex organic compounds that function as part of the enzyme system; essential for the transformation of energy and regulation of the body's metabolism.

CRUDE PROTEIN (CP)

Crude protein is the mixture of true protein and nonprotein nitrogen. It indicates the capacity of a feed to meet a animal's protein needs.

CRUDE FAT

Crude fat consists of fats, oils, some waxes, resins and pigments. Can be used to calculate energy needs.

CRUDE FIBER

Contains cellulose, hemicellulose and lignin.

ASH

The mineral matter of the feed.

MOISTURE

A term used to indicate the water contained in feeds.

Minerals:

CALCIUM - Bones, Body fluid regulation
PHOSPHORUS - Bones, Metabolism
ZINC - Metabolism
COPPER - Blood
IRON - Blood
COBALT - Blood
POTASSIUM - Body fluid regulation
MAGNESIUM - Body fluid regulation, Bones
MANGANESE - Metabolism
IODINE - Thyroid
SELENIUM - Muscles
SODIUM CHLORIDE - Body fluid regulation

Vitamins:

VITAMIN A - Eyes, Skin, Metabolism
VITAMIN D - Bones
VITAMIN E - Muscles, Metabolism, Reproduction
VITAMIN B12 - Blood, Metabolism
VITAMIN K - Blood Clotting
BIOTIN - Metabolism, Hoof conditioning
THIAMINE (B1) - Nerves, Metabolism
NIACIN - Nerves, Metabolism
RIBOFLAVIN (B2) - Enzymes
PANTOTHENIC ACID - Metabolism
CHOLINE CHLORIDE - Metabolism
PYRIDOXINE (B6) - Blood, Metabolism

