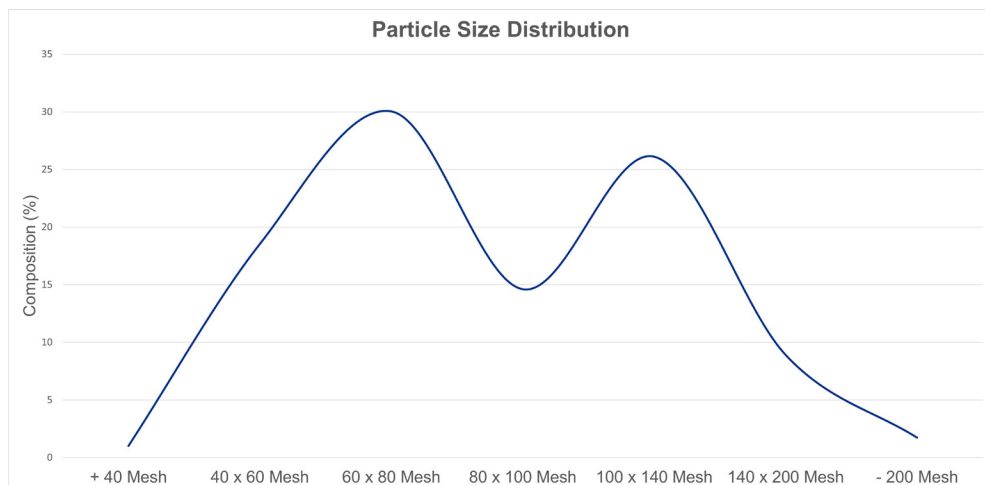




54% Basic Copper Chloride Trace Mineral Product

Vistore® AP: Granulated Copper to Enhance Material Handling



Material handling benefits of our lower density product with larger particle size include:

- Stronger particle helps reduce fracturing and dusting
- Enhanced flowability/material handling
- Less segregation
- Better blending dispersion

Purpose of Copper Supplementation

Copper Functions to Support:

- Red blood cell maturation
- Enzyme function
- Immune response
- Reproduction
- Collagen synthesis & maintenance

Copper Deficiencies may Contribute to:

- Bone and joint disease
- Tendon & ligament issues
- Early embryonic loss
- Poor coat quality

Safety & Quality You Can Depend On

- Our Dynamic Quality Assurance® (DQA®) program integrates material science and biological research with safety and quality programs and certified manufacturing systems to help instill confidence that Phibro products are safe, high-quality, consistent and efficacious for your animals – every time.
- Low heavy metal content
- Low reactivity in vitamin trace mineral blends, compared to sulfates¹
- Protected from antagonists²
- Purity and stability verified by elemental analysis, FTIR and XRD.
- In-house team of material scientists, QC technicians and customer solutions representatives who are ready to service you, for product confidence and peace of mind.

1. Effects of Dietary Supplementation with Copper Sulfate or Tribasic Copper Chloride on Broiler Performance, Relative Copper Bioavailability, and Oxidation Stability of Vitamin E in Feed. Poultry Science, Vol 84, Issue 6, 1 June 2005, pgs. 888-893.
 2. Bioavailability of copper from tribasic copper chloride and copper sulfate in growing cattle. Animal Feed Science and Technology, Vol 116 (2004) pgs. 1-13.



Vistore[®] AP

54% Basic Copper Chloride Trace Mineral Product

Typical Chemical Analysis

Cu54%
Cl15%
Cu ₂ (OH) ₃ Cl.....	.90%
Na095%
S070%
Ca	350 ppm
Zn.....	40 ppm
Fe.....	60 ppm
Ni5 ppm
Cr.....	10 ppm
Pb	10 ppm
Cd.....	1 ppm
As.....	10 ppm
Hg.....	0.1 ppm
Moisture	0.5%

Physical Description

Color	Dark green
Typical Sieve Profile	
+40 Mesh.....	.5%
40 X 100 Mesh60%
100 X 200 Mesh30%
-200 Mesh.....	.5%

Apparent Bulk Density

Loose58 lb/ft ³
Tapped64 lb/ft ³
Package	25 kg bag 1,000 kg tote



For more information or to request a product sample, please call 217-222-8854.