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MINERAL FILLERS
-CLAYS-
AIR-FLOAT

AKROCHEM® AIRFLOAT CLAYS

DESCRIPTION:

Aluminum silicates or clays are the single most used non-black fillers in elastomeric systems. They function as semi-reinforcers or extenders in rubber compounds at an economical price. These light cream powders are refined by an air separation process to remove impurities like quartz and mica and to produce a specific particle size. Aluminum silicates or clays are commonly referred to as kaolin clays. Akrochem clays have a pH of approximately 4.75 and a specific gravity of 2.60.

TYPICAL PROPERTIES:

GRADES:	HARD CLAY EW-150	HARD CLAY HC-100	HARD CLAY HC-75	SOFT CLAY SC-25
Free Moisture, % max.	1.50	1.50	1.50	1.50
Ignition Loss, %	14.0	14.0	14.0	14.0
GE Brightness	80	77	77	75
Alumina, %	39.0	39.0	39.0	39.8
Maganese, %	nil	nil	nil	nil
Silica, %	43.9	43.9	43.9	44.5
Particle Size, % < 2 μ	92	92	92	68
Mean Particle Size, μ	0.3	0.3	0.3	1.2
Screen Residue, % (+325 mesh)	0.25	0.25	0.35	0.35

APPLICATIONS:

Clays are used as low cost non-black reinforcing, stiffening or extending fillers in rubber. Hard clays give abrasion resistance. EW-150 or “Extra White” has the best color of these grades. HC-100 and HC-75 are standard and lower cost grades of hard clay. Soft clay allows higher pigment loading where abrasion is not important. SC-25 is less reinforcing, has slightly better color and processing advantages (hot metal release, extrusion, etc.) over standard hard clays. All these clays are manufactured by an air-floated process and are economically priced. Also available from Akrochem are specialty water-washed kaolin clays of high purity, fine particle size, high brightness, calcined, delaminated and treated variations.

wol – 1/09, t-clays

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