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INDUSTRIAL MINERALS SINCE 1897

A COMPARISON OF GCC and PCC PROPERTIES

This is a comparison of typical specifications between USA produced Ground Calcium Carbonate (GCC) and USP Precipitated Calcium Carbonate (PCC).

<u>Item</u>	<u>GCC</u>	<u>PCC</u>
1) PCC has a higher calcium assay than GCC		
CaCO ₃	96.	99+ typical, 98% guaranteed
MgCO ₃	1.0	1.0
Fe ₂ O ₃	0.2	0.06
Moisture	0.5	0.2
2) PCC has more smaller particles than GCC		
D90	10.0	9.0 micron
D50	4.0	1.9 micron
D10	1.0	0.2 micron
3) PCC has a higher brightness than GCC		
Brightness	91	98
4) GCC density is higher than GCC for the same particle size		
Loose density	40	18 lbs/cu ft
Tapped density	70	31
5) However, the density of PCC can be controlled over a very wide range		
6) The particle shape of PCC can be controlled and even designed, while the particle shape of GCC is usually blocky		
7) The price of GCC is lower than the price of PCC		
Price x-mill	\$0.1150/lb	\$0.2225/lb
As of Dec. 2001		