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Battelle Memorial Institute

505 KING AVENUE COLUMBUS 1, OHIO

October 13, 1961

Mr. W. H. Ashton
Research Department
Johnson & Johnson
New Brunswick, New Jersey

Dear Mr. Ashton:

The following constitutes the requested addendum to my letter of July 11, 1961, which discussed the various grades of commercial talc—exclusive of baby powder grade. The following is largely compiled from previous reports by the writer.

Baby Powder Grade Talc

Talc suitable for high-grade baby powder has requirements distinct from talcs suitable for other pharmaceutical or cosmetic uses. In general terms, the talcum must be pure, white, have a high brightness, high lubricity (slip), a minimum of abrasive components, and a minor amount of superfines (minus 15-micron particles). The talc must be foliated (platy) in crystallographic habit. Any nonfoliated or nonplaty talc components are undesirable. There are also limiting specifications in regard to particle size distribution, bulk density, moisture content, pH, and certain subjective evaluations. Talcum produced from the high-grade ore mined at Pinerolo, Italy, has become the standard of acceptability.

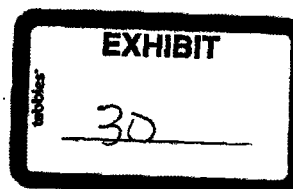
Summary

Acceptable high-grade talc, usually associated with lower grades of talc, is mined at the following locations, and is known to occur elsewhere:

Coatian Alps, Piedmont, Italy
Societa Talco e Grafite Val Chisone, Pinerolo

Serra das Eques, Bahia, Brazil
Magnesita, S.A., Brumado

Kanta Devi deposit, Dogotha Mines, Rajasthan, India
Jaipur Mineral Development Syndicate, Jaipur



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Dr. E. H. Ashton

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October 13, 1931

Acceptable take might also be predicted from certain trends given even by bromofluoride—where the phosy take is dependent chiefly, there is no comparable from the other components, and there is no essentially comparable to extending to a high-level product comparable to Italian take.

General Survey

Natural area of bromofluoride products available for baby product matter between a between's standard (take from fluorine, Italy) should have a comparable, as determined by polypropylene units, equivalent to or better than the following:

Total take	97	elastic
Phosy take	90	elastic
Nonphosy take	10	elastic
Carbonates	2	elastic
Fluorides, other contribution	99	elastic

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Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099
1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	

ಪ್ರತಿಭಟನೆ ಮತ್ತು ಮುಕ್ತಾಯದ ಸಂದರ್ಭದಲ್ಲಿ ಈ ರೀತಿಯಲ್ಲಿ ಇರಬೇಕು

[illegible]Unsubstantiated

The collapse of a nation is determined by the organizational habits of the folk, the parallel also deterioration, the else and others of the government, and the national content. Although subjective tools have been devised to compare the leadership of folk, the final test for leadership is competency and not be a subjective evaluation. Leadership has been characterized accordingly by scaling a scale of folk between the manager. People are connected in a working leadership and also to determine the effectiveness in reality. The conceptual development in leadership is a high subjective assessment.

1. The first of these is the fact that the
 2. Government has not been able to
 3. maintain a stable exchange rate.
 4. This has led to a loss of confidence
 5. in the Government and a consequent
 6. fall in the value of the pound.
 7. The second of these is the fact that
 8. the Government has not been able to
 9. reduce the budget deficit.
 10. This has led to a loss of confidence
 11. in the Government and a consequent
 12. fall in the value of the pound.
 13. The third of these is the fact that
 14. the Government has not been able to
 15. reduce the inflation rate.
 16. This has led to a loss of confidence
 17. in the Government and a consequent
 18. fall in the value of the pound.
 19. The fourth of these is the fact that
 20. the Government has not been able to
 21. reduce the unemployment rate.
 22. This has led to a loss of confidence
 23. in the Government and a consequent
 24. fall in the value of the pound.
 25. The fifth of these is the fact that
 26. the Government has not been able to
 27. reduce the public sector borrowing
 28. requirement.
 29. This has led to a loss of confidence
 30. in the Government and a consequent
 31. fall in the value of the pound.
 32. The sixth of these is the fact that
 33. the Government has not been able to
 34. reduce the current account deficit.
 35. This has led to a loss of confidence
 36. in the Government and a consequent
 37. fall in the value of the pound.
 38. The seventh of these is the fact that
 39. the Government has not been able to
 40. reduce the foreign debt.
 41. This has led to a loss of confidence
 42. in the Government and a consequent
 43. fall in the value of the pound.
 44. The eighth of these is the fact that
 45. the Government has not been able to
 46. reduce the interest rate.
 47. This has led to a loss of confidence
 48. in the Government and a consequent
 49. fall in the value of the pound.
 50. The ninth of these is the fact that
 51. the Government has not been able to
 52. reduce the money supply.
 53. This has led to a loss of confidence
 54. in the Government and a consequent
 55. fall in the value of the pound.
 56. The tenth of these is the fact that
 57. the Government has not been able to
 58. reduce the public sector net borrowing.
 59. This has led to a loss of confidence
 60. in the Government and a consequent
 61. fall in the value of the pound.
 62. The eleventh of these is the fact that
 63. the Government has not been able to
 64. reduce the public sector net debt.
 65. This has led to a loss of confidence
 66. in the Government and a consequent
 67. fall in the value of the pound.
 68. The twelfth of these is the fact that
 69. the Government has not been able to
 70. reduce the public sector net financial
 71. liability.
 72. This has led to a loss of confidence
 73. in the Government and a consequent
 74. fall in the value of the pound.
 75. The thirteenth of these is the fact that
 76. the Government has not been able to
 77. reduce the public sector net capital
 78. liability.
 79. This has led to a loss of confidence
 80. in the Government and a consequent
 81. fall in the value of the pound.
 82. The fourteenth of these is the fact that
 83. the Government has not been able to
 84. reduce the public sector net debt.
 85. This has led to a loss of confidence
 86. in the Government and a consequent
 87. fall in the value of the pound.
 88. The fifteenth of these is the fact that
 89. the Government has not been able to
 90. reduce the public sector net financial
 91. liability.
 92. This has led to a loss of confidence
 93. in the Government and a consequent
 94. fall in the value of the pound.
 95. The sixteenth of these is the fact that
 96. the Government has not been able to
 97. reduce the public sector net capital
 98. liability.
 99. This has led to a loss of confidence
 100. in the Government and a consequent
 101. fall in the value of the pound.
 102. The seventeenth of these is the fact that
 103. the Government has not been able to
 104. reduce the public sector net debt.
 105. This has led to a loss of confidence
 106. in the Government and a consequent
 107. fall in the value of the pound.
 108. The eighteenth of these is the fact that
 109. the Government has not been able to
 110. reduce the public sector net financial
 111. liability.
 112. This has led to a loss of confidence
 113. in the Government and a consequent
 114. fall in the value of the pound.
 115. The nineteenth of these is the fact that
 116. the Government has not been able to
 117. reduce the public sector net capital
 118. liability.
 119. This has led to a loss of confidence
 120. in the Government and a consequent
 121. fall in the value of the pound.
 122. The twentieth of these is the fact that
 123. the Government has not been able to
 124. reduce the public sector net debt.
 125. This has led to a loss of confidence
 126. in the Government and a consequent
 127. fall in the value of the pound.
 128. The twenty-first of these is the fact that
 129. the Government has not been able to
 130. reduce the public sector net financial
 131. liability.
 132. This has led to a loss of confidence
 133. in the Government and a consequent
 134. fall in the value of the pound.
 135. The twenty-second of these is the fact that
 136. the Government has not been able to
 137. reduce the public sector net capital
 138. liability.
 139. This has led to a loss of confidence
 140. in the Government and a consequent
 141. fall in the value of the pound.
 142. The twenty-third of these is the fact that
 143. the Government has not been able to
 144. reduce the public sector net debt.
 145. This has led to a loss of confidence
 146. in the Government and a consequent
 147. fall in the value of the pound.
 148. The twenty-fourth of these is the fact that
 149. the Government has not been able to
 150. reduce the public sector net financial
 151. liability.
 152. This has led to a loss of confidence
 153. in the Government and a consequent
 154. fall in the value of the pound.
 155. The twenty-fifth of these is the fact that
 156. the Government has not been able to
 157. reduce the public sector net capital
 158. liability.
 159. This has led to a loss of confidence
 160. in the Government and a consequent
 161. fall in the value of the pound.
 162. The twenty-sixth of these is the fact that
 163. the Government has not been able to
 164. reduce the public sector net debt.
 165. This has led to a loss of confidence
 166. in the Government and a consequent
 167. fall in the value of the pound.
 168. The twenty-seventh of these is the fact that
 169. the Government has not been able to
 170. reduce the public sector net financial
 171. liability.
 172. This has led to a loss of confidence
 173. in the Government and a consequent
 174. fall in the value of the pound.
 175. The twenty-eighth of these is the fact that
 176. the Government has not been able to
 177. reduce the public sector net capital
 178. liability.
 179. This has led to a loss of confidence
 180. in the Government and a consequent
 181. fall in the value of the pound.
 182. The twenty-ninth of these is the fact that
 183. the Government has not been able to
 184. reduce the public sector net debt.
 185. This has led to a loss of confidence
 186. in the Government and a consequent
 187. fall in the value of the pound.
 188. The thirtieth of these is the fact that
 189. the Government has not been able to
 190. reduce the public sector net financial
 191. liability.
 192. This has led to a loss of confidence
 193. in the Government and a consequent
 194. fall in the value of the pound.
 195. The thirty-first of these is the fact that
 196. the Government has not been able to
 197. reduce the public sector net capital
 198. liability.
 199. This has led to a loss of confidence
 200. in the Government and a consequent
 201. fall in the value of the pound.
 202. The thirty-second of these is the fact that
 203. the Government has not been able to
 204. reduce the public sector net debt.
 205. This has led to a loss of confidence
 206. in the Government and a consequent
 207. fall in the value of the pound.
 208. The thirty-third of these is the fact that
 209. the Government has not been able to
 210. reduce the public sector net financial
 211. liability.
 212. This has led to a loss of confidence
 213. in the Government and a consequent
 214. fall in the value of the pound.
 215. The thirty-fourth of these is the fact that
 216. the Government has not been able to
 217. reduce the public sector net capital
 218. liability.
 219. This has led to a loss of confidence
 220. in the Government and a consequent
 221. fall in the value of the pound.
 222. The thirty-fifth of these is the fact that
 223. the Government has not been able to
 224. reduce the public sector net debt.
 225. This has led to a loss of confidence
 226. in the Government and a consequent
 227. fall in the value of the pound.
 228. The thirty-sixth of these is the fact that
 229. the Government has not been able to
 230. reduce the public sector net financial
 231. liability.
 232. This has led to a loss of confidence
 233. in the Government and a consequent
 234. fall in the value of the pound.
 235. The thirty-seventh of these is the fact that
 236. the Government has not been able to
 237. reduce the public sector net capital
 238. liability.
 239. This has led to a loss of confidence
 240. in the Government and a consequent
 241. fall in the value of the pound.
 242. The thirty-eighth of these is the fact that
 243. the Government has not been able to
 244. reduce the public sector net debt.
 245. This has led to a loss of confidence
 246. in the Government and a consequent
 247. fall in the value of the pound.
 248. The thirty-ninth of these is the fact that
 249. the Government has not been able to
 250. reduce the public sector net financial
 251. liability.
 252. This has led to a loss of confidence
 253. in the Government and a consequent
 254. fall in the value of the pound.
 255. The fortieth of these is the fact that
 256. the Government has not been able to
 257. reduce the public sector net capital
 258. liability.
 259. This has led to a loss of confidence
 260. in the Government and a consequent
 261. fall in the value of the pound.
 26

Average Particle Diameter, approximately 2.4 to 3.3 microns,
Filter Sublevel Size

Specific Surface, greater than 6500 cm^2/g , preferably near
8000 cm^2/g , Filter Sublevel Size

Other Measurements for the recommended requirements for a
high-grade talc, the equivalent or better than talc from Pinetop,
Italy, include:

PH, less than 9.4, preferably closer to 7

Field solubility, greasy-talc, less than 3 per cent
volume, less than 2 per cent

Reflectance and whiteness, including

* These measurements will vary considerably, depending on the method of
measuring the sample, and the choice of calibration standards.

Battelle Memorial Institute

Mr. W. H. Ashton

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erection absorbs more moisture on the greater surface area per unit of weight. Although Johnson and Johnson's Raw Material Specifications sheet states 0.15 per cent moisture content is tolerable, it has been shown experimentally that the Trolan talc used has a lower moisture content:

Unseparated powder	0.05 per cent
*200	0.01 per cent
-200+250	0.05 per cent
-250+270	0.05 per cent
-270+325	0.04 per cent
-325+400	0.05 per cent
-400	0.04 per cent

To prevent moisture content from decreasing the lubricity of the talcum, it is desirable that the moisture content be 0.05 per cent or less, preferably 0.05 per cent or less, on whole powder.

Measurements closely related to lubricity, which are obtainable by standard methods include:

Bulk Density, 22 to 24 lb/cu ft., Scott Volumeter

Porosity, approximately 0.45 to 0.50, Fisher Subseive Sizer

Battelle Memorial Institute

Dr. C. H. Ashton

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October 19, 1941

luminous segment reflectance, 75.0 or better,
Photovolt Photoelectric Reflection Meter

brightness (Rd), 51.0 or greater, Gardner Color Meter

whiteness (+b), less than 2.0, Gardner Color Meter.

Very truly yours,

Wm. L. Smith

Wm. L. Smith
Principal Geologist

WLS:lb
In triplicate