



PNEUMATIC CONVEYING/BLENDING SELECTION CHART

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	DENSE PHASE PRESSURE	DENSE PHASE VACUUM	DENSE PHASE "SLOW FLOW"	DILUTE PHASE PRESSURE	DILUTE PHASE VACUUM	PNEUMATIC BLENDING
MATERIAL CHARACTERISTICS						
Bulk Density (>75 PCF)	1	2	2	3	3	2
Bulk Density (25-75 PCF)	1	1	1	1	1	1
Bulk Density (<25 PCF)	1	1	1	1	1	1
Soft Particles	2	2	2	2	2	2
Cohesive Materials	2	2	2	2	1	2
Hot Materials	2	2	2	2	2	2
Fragile/Friable Materials	1	1	1	3	3	1
Mildly Abrasive	1	1	1	1	1	1
Moderately Abrasive	1	1	2	2	2	1
Highly Abrasive	1	1	3	3	3	1
Blended Batch (Minimum Segregation)	1	1	1	3	3	1
PARTICLE SIZE/SHAPE						
Very Fine (<.010")	1	1	1	1	1	1
Fine (.010"-.024")	1	1	1	1	1	1
Granular (.025"-.050")	1	1	1	1	1	1
Pellets (.06"-.25")	1	1	1	1	1	2
Coarse (>.25")	2	3	2	1	1	3
Fibrous	3	2	3	2	1	2
Lumpy/Irregular	SPECIAL APPLICATION					
FEATURES						
Continuous Conveying	Yes	Yes	Yes	Yes	Yes	n/a
Line Purge or Clean Out	Yes	Yes	Yes	Yes	Yes	Yes
Solids:Air Ratio	15-70:1	15-50:1	15-50:1	<15:1	<12:1	30-60:1
Closed Loop System Available	2	1	1	1	1	2
Sanitary Design Available	Yes	Yes	Yes	Yes	Yes	Yes
Typical Conveying Pressure	15-65 PSI	9"-14" Hg.	15-35 PSI	<12 PSI	<14" Hg.	20-40 PSI
Velocity Range (Feet Per Minute)	< 2,000	< 2,000	< 2,000	< 7,500	< 9,000	n/a
Long Distance (Up to 1,000')	1	3	1	2	3	n/a
1 = Recommended 2 = Suitable 3 = Not Recommended						

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