



## FILTER AID APPLICATIONS

The chart to the right lists some typical applications and grade selections for Celatom® filter aid products. Many of these applications utilize more than one filtration step in the process and could potentially use different filter aid grades for these steps. In many cases the choice between DE or Perlite would be determined by performance or logistical advantages of the Celatom products.

The general rule of filtration will always apply to any of these applications. That rule is to utilize the fastest (coarsest) grade of filter aid that can give the desired clarity for the product produced. By following this rule, optimal filtration conditions can be achieved resulting in the most cost effective use of our filter aids. Often we find that our customers or potential customers have drifted from this formula and have “over dosed” their filter aids, perhaps due to an upset condition that has since passed or other process conditions that no longer exist. In many cases the customer’s process has changed, consequently changing the solids profile sent to the filters. However, even though the process has changed the customer is still using the same filter aid and its filtration efficiency is worse.

Often customers attempt to increase filtration throughput by choosing a coarser grade of filter aid only to find out the filtration performance has been negatively impacted. EP Minerals’ Technical Service Group can assist you in helping the customer achieve optimized filtration performance and cost effective use of Celatom Filter Aids. Contact your sales representative for more information.

| Application                       | Pink | Slow White | Fast White | Perlite |
|-----------------------------------|------|------------|------------|---------|
| Alcohol/Whiskey                   | X    | X          |            |         |
| Alginates                         |      |            | X          | X       |
| Aluminum Cold Rolling Oil         | X    | X          |            |         |
| Aluminum Hot Rolling Oil          | X    | X          |            |         |
| Amines                            |      | X          |            |         |
| Antibiotics                       |      | X          | X          | X       |
| Beer                              | X    | X          |            | X       |
| Biodiesel                         | X    | X          |            |         |
| Blood fractionation               | X    | X          |            |         |
| Brine Cheese                      |      | X          |            |         |
| Brine Solution (Oil/Gas Drilling) |      | X          | X          |         |
| Caustic                           |      | X          |            |         |
| Citric Acid                       |      | X          |            |         |
| Corn Gluten                       |      | X          | X          |         |
| Degumming of Oils                 |      | X          | X          | X       |
| Dewaxing                          |      | X          | X          | X       |
| Drinking Water                    |      | X          |            |         |
| Dry Cleaning Solvents             |      | X          |            |         |
| Edible Oil                        |      | X          | X          | X       |
| Enzymes                           |      | X          | X          | X       |
| Fructose, Glucose, Corn Syrup     | X    | X          | X          | X       |
| Fruit Juice                       | X    | X          | X          | X       |
| Gelatin                           | X    | X          |            |         |
| Gold/Silver Mining                |      | X          |            |         |
| Grease Trap                       |      |            | X          | X       |
| Lacquers                          |      | X          | X          |         |
| Lactic Acid                       | X    | X          |            |         |
| Lard                              |      | X          | X          |         |
| Liquid Sulfur                     |      |            | X          | X       |
| Lube Oil Additives                | X    | X          | X          |         |
| Molasses                          | X    | X          |            |         |
| Olive Oil                         | X    | X          |            |         |
| Pectin                            | X    | X          |            |         |
| Petrochemical                     |      | X          | X          |         |
| Pharmaceuticals, Fermentation     | X    | X          | X          | X       |
| Phosphoric Acid                   | X    | X          |            |         |
| Plating Solutions                 | X    | X          |            |         |
| Rendering                         |      | X          | X          |         |
| Resins                            |      | X          | X          |         |
| Sake                              | X    | X          |            |         |
| Soda Ash                          |      | X          | X          | X       |
| Soy Sauce, Fish Sauce, MSG        | X    | X          |            |         |
| Sugar                             |      | X          | X          | X       |
| Swimming Pools                    |      |            | X          | X       |
| TiO2                              |      | X          | X          |         |
| Vinegar                           | X    | X          |            |         |
| Waste Water                       |      |            | X          | X       |
| Wine                              | X    | X          | X          | X       |



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