CLAIMS

1. A composition comprising:

a fluid; and

a material dispersed in said fluid, said material comprised of particles having a sharp, blade-like surface, said particles having an aspect ratio larger than 0.7 for promoting kinetic boundary layer mixing in a non-linear-viscosity zone;

wherein said fluid is an incompressible fluid; and

wherein said particles have a Mohs hardness value of greater than 2.5.

2. The composition according to claim 1 further comprising an additive dispersed in said fluid.

3. The composition according to claim 1 wherein said fluid is a ~~thermopolymer~~ material.

4. The composition according to claim 3 wherein said sharp blade-like surface of said particles is sized for grinding and cutting of polymers of said ~~thermopolymer~~ material during a mixing operation.

5. The composition according to claim 1 wherein said particles have a hardness sufficient to deform said fluid as it flows around said particles, thereby promoting kinetic mixing through the tumbling or rolling effect of the particle.

6. The composition according to claim 1 wherein said particles are of a size that remain primarily in the boundary layer of said fluid, said particles having an appropriate size with respect to the boundary layer such that fluid forces flowing over said boundary layer cause

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1. A composition comprising:

a fluid; and

a material dispersed in said fluid, said material comprised of particles having a sharp, blade-like surface, said particles having an aspect ratio larger than 0.7 for promoting kinetic boundary layer mixing in a non-linear-viscosity zone;

wherein said fluid is an incompressible fluid; and

wherein said particles have a Mohs hardness value of greater than 2.5.

2. The composition according to claim 1 further comprising an additive dispersed in said fluid.

3. The composition according to claim 1 wherein said fluid is a thermoplastic polymer material.

4. The composition according to claim 3 wherein said sharp blade-like surface of said particles is sized for grinding and cutting of polymers of said thermoplastic polymer material during a mixing operation.

5. The composition according to claim 1 wherein said particles have a hardness sufficient to deform said fluid as it flows around said particles, thereby promoting kinetic mixing through the tumbling or rolling effect of the particle.

6. The composition according to claim 1 wherein said particles are of a size that remain primarily in the boundary layer of said fluid, said particles having an appropriate size with respect to the boundary layer such that fluid forces flowing over said boundary layer cause

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