

Performance Materials Properties

PRODUCTS	METAL OXIDE	WT. % METAL OXIDE	MEDIA	PRIMARY PARTICLE SIZE (nm)	pH	PARTICLE CHARGE	COUNTER ION	S.G.	VISCOSITY	APPEARANCE
ALUMINA										
AL20	Alumina	20	Water	50	4.0	+	Nitrate	1.19	10 cP	White; Milky
AL20DW	Alumina	20	Water	50	4.0	+	Nitrate	1.19	10 cP	White; Milky
AL20SD	Alumina	78	Dry Powder	50	4.0	N/A	Nitrate	3.01	Dry Powder	White; Milky
CERIA										
CeO ₂ -ACT	Ceria	20	Water	10-20	3.0	+	Acetate	1.22	10 cP	Pale Yellow/Brown
CeO ₂ -NIT	Ceria	20	Water	10-20	1.5	+	Nitrate	1.22	10 cP	Pale Yellow/Brown
SILICA										
DP5480	Silica	30	Ethylene Glycol	85	3.0* ¹	-	N/A	1.3	60 cP	Clear
DP5540	Silica	30	Ethylene Glycol	120	3.0* ¹	-	N/A	1.3	60 cP	Clear
DP5820	Silica	30	Ethylene Glycol	20	3.0* ¹	-	N/A	1.3	85 cP	Clear
NYASIL™ 5	Silica	96	Dry Powder	5	3.6* ²	N/A	N/A	2.2	N/A	White; Milky
NYASIL™ 20	Silica	96	Dry Powder	20	4.4* ²	N/A	N/A	2.2	N/A	White; Milky
TIN										
SN15	Tin Oxide	15	Water	10-15	9.0-10.5	-	Potassium	1.15	5-10 cP	Clear
YTTRIA										
Y ₂ O ₃	Yttria	14	Water	10	7.0	+	Acetate	1.17	10 cP	Clear
ZINC										
DP5370	Zinc Oxide	30	Water	50	9.5	-	N/A	1.35	15 cP	White; Milky
ZIRCONIA										
ZrO ₂ (acetate stab.)	Zirconia	20	Water	5-10	3.5	+	Acetate	1.26	10 cP	Clear
ZR10/20 pH 0.5	Zirconia	20	Water	5-10	0.5	+	Nitrate	1.32	8 cP	Clear
ZR50/20 pH 3.0	Zirconia	20	Water	50	3.0	+	Nitrate	1.25	20 cP	White; Milky
ZR100/20 pH 3.0	Zirconia	20	Water	100	3.0	+	Nitrate	1.22	20 cP	White; Milky
ZRYS4	Zirconia w/ Yttria	20	Water	100	6.0	+	Nitrate	1.21	20 cP	White; Milky

*¹ 50/50 WT% in water

*² 5 WT % aqueous slurry

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