

Comprehensive Analysis of Artistic Mediums and Materials																																							
Medium	Material Properties															Artistic Techniques																							
	Weight (g)	Volume (cm³)	Density (g/cm³)	Strength (MPa)	Hardness (HV)	Modulus (GPa)	Thermal Exp. (ppm/K)	Thermal Cond. (W/mK)	Electrical Cond. (S/m)	Optical Trans. (%)	Acoustic Prop. (m/s)	Surface Area (m²)	Volume (m³)	Mass (kg)	Cost Index	Engraving	Etching	Faience	Glass	Gold	Graphite	Hand-colored engraving	Hand-colored etching	Iron	Ivory	Limestone	Lithograph	Marble	Oil on canvas	Pen and brown ink	Polychromed wood	Porcelain	Silk and metal thread	Silver	Steel	Wood	Wood engraving	Woodblock	Woodcut
Albumen photograph	5e+01	0	0	0	3	8	0	0	1	3	0	0	1	1	1	9	0	6	12	1	0	0	0	0	1	4	0	1	1										
Bronze	0	6e+01	0.17	8	2	0	28	18	7	0	0	0	71	21	15	1	12	2	0	3	15	1	68	7	32	1	0	0	10										
Ceramic	1	22	4e+01	20	0	0	7	8	7	0	0	0	3	34	66	0	33	1	0	21	25	1	11	2	27	0	0	0	11										
Clay	1	0	12	4e+01	21	0	2	3	6	0	0	0	3	17	8	7	2	0	0	1	2	1	4	3	1	4	0	0	5										
Engraving	5	0	0	34	4e+01	87	0	0	0	0	1	0	1	0	1	22	0	0	11	1	0	0	0	0	0	80	3	44	1										
Etching	8	1	0	21	2e+02	2e+02	0	0	0	5	8	0	2	0	5	76	1	0	7	1	1	1	3	1	01.1e+022	22	1												
Faience	0	10	4	7	1	14	8e+01	52	20	1	2	0	3	30	22	0	15	0	0	3	37	0	4	0	5	0	1	0	3										
Glass	1	24	12	17	0	0	30	6e+01	24	0	1	0	17	26	14	4	6	3	1	8	48	3	60	13	15	0	1	0	12										
Gold	1	5	1	3	0	0	1	3	9e+01	0	0	0	2	38	9	2	1	1	1	7	3	3	11	2	8	0	0	1	5										
Graphite	1	0	0	0	5	4	0	0	01.5e+021	0	0	0	0	0	8	0	0	11	0	1	0	0	1	0	4	1	0	0											
Hand-colored engraving	0	0	0	0	1	4	2	0	0	03.2e+020	0	0	0	0	2	0	1	0	0	0	0	0	0	0	0	0	1	0	0										
Hand-colored etching	3	0	0	0	4	4	0	0	0	0	10	9e+021	0	0	37	0	0	1	0	1	1	0	0	0	4	21	8	1											
Iron	0	4	0	0	0	0	1	0	2	0	0	02.1e+025	2	1	1	0	0	0	2	1	15	9	8	1	0	0	2												
Ivory	6	3	4	18	0	0	4	6	33	1	0	0	4	6e+01	40	1	17	1	9	12	7	8	4	9	10	1	0	0	9										
Limestone	5	4	5	12	3	4	4	3	6	0	0	0	23	26	5e+01	4	89	2	1	7	9	4	6	9	9	1	1	3	7										
Lithograph	9	1	1	2	17	27	0	0	1	11	10	7	0	0	71.6e+01	1	3	8	6	2	4	2	2	0	88	18	13	4											
Marble	2	0	4	4	0	1	3	0	0	2	0	0	3	7	56	21.4e+021	0	2	16	1	2	4	3	1	1	0	2												
Oil on canvas	1	0	0	2	1	0	3	2	0	0	1	0	1	1	6	1	64.8e+0211.7e+022	2	3	1	3	1	10	0	5														
Pen and brown ink	3	0	0	0	3	12	0	0	0	13	5	0	1	1	1	2	0	02.3e+020	0	4	2	0	0	2	3	3	3												
Polychromed wood	1	0	5	0	0	0	1	1	2	1	0	0	4	14	4	2	1	87	02.3e+021	3	0	2	14	1	2	0	1												
Porcelain	0	7	5	1	0	0	11	17	6	0	3	0	5	11	7	0	16	4	0	65.6e+01	1	15	6	3	0	0	0	15											
Silk and metal thread	1	0	0	0	0	1	1	0	1	1	3	0	0	2	1	0	0	0	0	1	4	46	0	0	1	0	2	2	28										
Silver	0	24	2	2	2	0	4	10	9	0	0	0	46	7	4	2	5	1	1	3	43	4	5e+01	15	5	2	0	0	13										
Steel	0	2	0	0	0	0	0	0	0	0	0	0	8	0	0	1	1	0	0	1	1	0	71.1e+021	1	1	0	0	0											
Wood	1	12	12	9	1	0	2	9	6	1	0	0	51	62	20	2	13	5	1	31	12	7	3	4	4e+01	4	0	3	27										
Wood engraving	2	0	0	0	9	7	0	0	0	0	0	0	0	1	1	16	0	1	1	0	1	0	0	4	03.1e+020	7	0												
Woodblock	6	1	0	0	4	12	3	0	1	4	12	6	0	1	5	14	0	20	16	4	12	6	2	0	0	15	3e+01	21	4										
Woodcut	4	0	0	0	26	17	0	0	0	1	2	0	0	1	0	11	0	0	8	1	0	1	0	0	25	4	5e+01	4											
Woven fabric	5	4	3	6	1	1	3	5	5	11	1	0	5	15	24	8	13	5	14	3	121.0e+026	1	9	7	8	16	4e+01												