

Ferro Frit Analysis



USA Pottery Frits

Leadless Glaze Frits - Percentage Compositions

Frit	Li2O	F2	SiO2	B2O3	Na2O	K2O	CaO	MgO	BaO	SrO	Al2O3	ZnO	ZrO2	Fusion	Flow	CTE (x 10 ⁻⁶)	Typical Use
3110-2			69.77	2.64	15.24	2.36	6.29				3.7			1400 F	1700 F	10.08	Flux frit commonly used in crystalline glazes
3124-2			54.94	13.74	6.4	0.68	14.23				10.01			1600 F	1750 F	7.94	Calcium, boron source for partially fritted glazes
3134-2			45.56	22.79	10.14		19.51				2			1450 F	1600 F	9.47	Calcium, boron source for partially fritted glazes
3195-2			48.35	22.62	5.69		11.36				11.98			1500 F	1700 F	7.16	All fritted to partially-fritted clear glazes
3269-2	1.5		51.23	15.06	10.97	7.42	0.41				12.4	0.97		1400 F	1500 F	9.98	Alkali source, crackle glazes
3270-2			47.79	22.61	7.4	5.4	8.5				8.3			1500 F	1600 F	8.79	Partially fritted glaze alkali, boron source
3278-2			56.31	21.73	15.1		6.86							1400 F	1550 F	9.7	Partially fritted glaze alkali, boron source
3292-2	0.42		60.86	5.75	3.01	3.14	10.53	0.7		4.83	10.76			1650 F	1900 F	7.62	All fritted to partially-fritted clear glazes
5301-2		9	44.49	12.48	14.03	5.53	2.36				12.08			1400 F	1500 F	11.41	Alkali source, crackle glazes
CC250-2			50-55%	15-20%	5-10%	<1%	10-15%				10-15%			1500 F	1700 F	7.73	Calcium, boron source for partially fritted glazes
CC263-2			50-55%	15-20%	<1%	<5%	5-10%	<1%		<5%	10-15%		<1%	NA	1850 F	6.79	All fritted to partially-fritted clear glazes
CC272-2	<1%		60-65%	5-10%	<5%	<5%	5-10%	<1%	<5%	5-10%	5-10%		<1%	NA	1850 F	7.05	All fritted to partially-fritted clear glazes
CC274-2			55-60%	10-15%	<5%	<5%	5-10%				5-10%	5-10%		NA	1850 F	7.19	All fritted to partially-fritted clear glazes
CC279-3	<5%	<5%	50-55%	15-20%	5-10%	<5%	5-10%	<1%		<5%	5-10%	<1%	<5%	NA	1600 F	8.32	All fritted to partially-fritted clear glazes
FA233-2			45-50%	15-20%	<5%	<1%	10-15%				5-10%	<5%	10-15%	NA	1650 F	7.04	All fritted to partially-fritted opaque glazes
FB276-P-2	<5%		50-55%	10-15%	<1%	<5%	5-10%	<1%		5-10%	5-10%		<1%	NA	1750 F	7.09	All fritted to partially-fritted clear glazes

All frit data included, with the exception of fusion and flow temperatures, was obtained by calculation rather than by actual analysis or test, and is therefore, intended to be relative rather than factual.

Fusion and flow temperatures shown are those used by the quality control department on the respective frits and are somewhat higher than actual melting temperatures.