

BINDER

SILICATE TO MANUFACTURE WELDING ELECTRODES

POTASSIUM SILICATES – GRADES K-66,K-76 & K-120

<i>Particulars</i>	<i>K-66</i>	<i>K-76</i>	<i>K-120</i>
Specific Gravity (25°C)	1.310 to 1.350	1.372 to 1.398	1.370 to 1.395(30°C)
Viscosity (25°C) (By redwood viscometer)	100cps to 200cps	250cps to 300ps	500 to 600cps (30°C)
K ₂ O	6.00 to 8.00	7.50 to 8.50	20.00 to 21.50
Na ₂ O	1.20 to 2.00	2.00 to 2.50	1.1
LiO ₂	0.40 to 0.60	0.70 to 0.80	--
SiO ₂	24.00 to 26.00	27.00 to 28.00	30.00 to 33.0
Weight Ratio	--	--	1:1.45 to 1:1.55
Mole Ratio	--	--	2.26 to 2.42

SODIUM SILICATE – NEUTRAL

Specific Gravity (30°C)	1.37 to 1.44
Viscosity (30°C)	100 to 450cps
Na ₂ O	8.75 to 12.0
SiO ₂	24.0 to 32.0
Weight Ratio	1:2.8 to 1:3.2

LITHIUM BASED POTASSIUM SILICATE

Specific Gravity (25°C)	1.19 to 1.21
SiO ₂	2.49 to 2.51
LiO ₂	20.50 to 20.60
Weight Ratio	8.76 to 8.34
Mole Ratio	4.38 to 4.42