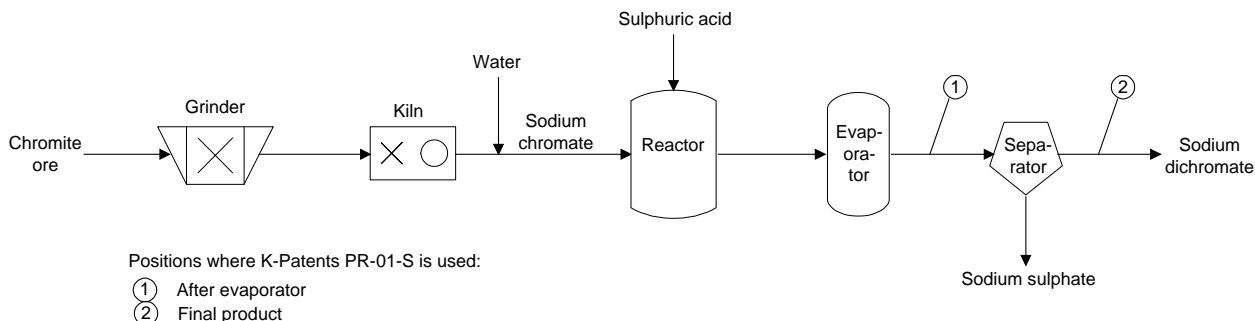


### Sodium Dichromate

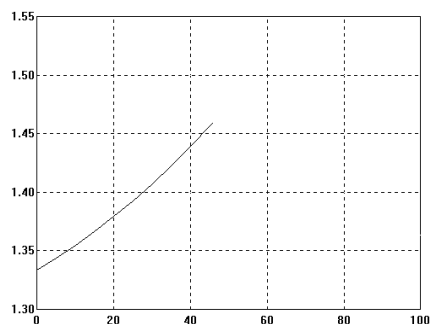


### Sodium dichromate (Na<sub>2</sub>Cr<sub>2</sub>O<sub>7</sub> · 2H<sub>2</sub>O)

**Typical end products**

Chromium metal, magnetic tapes, tanning of leather, preservation compound for timber, metal finishing, pigments for plastic and ceramic industry

**Chemical curve: R.I. per Conc% b.w.**



R.I. Ref. temp.20°C

### Introduction

Sodium dichromate (Na<sub>2</sub>Cr<sub>2</sub>O<sub>7</sub> · 2H<sub>2</sub>O) is used in the manufacturing of chromium metal, magnetic tapes, tanning of leather, preservation compound for timber, metal finishing as well as manufacturing of pigments for the plastic and ceramic industry. Other applications are as catalysts, corrosion inhibition, and in the oil and detergent industry.

### Application

Ground direct chromite ore is roasted at high temperatures in large rotary kilns with soda ash in a oxidising atmosphere to convert the chromium into a recoverable form. The product is then quenched in water and the sodium chromate is extracted and reacted with sulphuric acid to give a commercially pure solution of sodium dichromate.

### Installation

K-Patents Process Refractometer, PR-01-S is used in the evaporation process to control the concentration of the sodium dichromate liquor.

Typical measurement range of sodium dichromate is 25-55% and the process temperature about 85°C (185°F).