



<b>Hazards</b>	skin reactions or burns
<b>Tools/Equipment</b>	50 ml graduated cylinder, ceramic 140 ml sample dish, chromate indicator, silver nitrate
<b>Employee Group(s)</b>	Facilities Management – Central Heating Plant

**Required PPE:**



Safety Shoes



Eye Protection



Ear Protection



Chemical Resistant Gloves

**SAFE WORK PRACTICES**

- Do not perform the procedure or operate the equipment until you have been appropriately trained and authorized to do so by your supervisor.
- Inspect required personal protective equipment (PPE) and replace if required.
- Safety eye wear and rubber gloves should always be worn when carrying out test procedures. Some of the test reagents used will cause skin reactions or burns and proper protection should be worn at all times.

**PROCEDURE**

1. Using P-alk sample, add 10 drops of potassium chloride.
2. Titrate with silver nitrate until sample turns orange/red.
3. Multiply readings X 20.
4. Limits – below 300.
5. Control with blow down.

**New Test:**

- 10 ml of boiler sample
- Add 3 drops of pheno – turns red
- Add enough acid until red goes away – clear
- Then add 12 drops of chromate indicator and sample turns yellow
- Add silver nitrite until we get very light brown
- Reading X 100 = chloride reading

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*NOTE: All PPE, tools and equipment shall be used in accordance with provincial OH&S legislation, manufacturer's specifications, applicable standards and codes of practice.*