钙离子和PH值对海藻酸钠液流变性能影响

陈宗淇,王宁华,韩恩山,陈娟,王光信

青岛化工学院应用化学系

收稿日期 修回日期 网络版发布日期 接受日期

摘要 海藻酸钠溶液是假塑性体系,它的粘度与体系的浓度、温度、PH值和外加盐类的浓度等有密切关系,并有一定触变性,在某个钙离子浓度范围内,体系出现了负触变性,对此用配离子的"屏蔽"现象进行了解释。 关键词 <u>钠化合物 溶液 甘露糖 PH值 钙离子 海藻产品 流变性质 粘度 触变性 古罗糖 醛糖</u>分类号 063

### The effects of calcium ion, PH value on the rheological properties of sodium alginate solution

CHEN ZONGQI, WANG NINGHUA, HAN ENSHAN, CHEN JUAN, WANG GUANGXIN

**Abstract** Na alginate (I) solution showed non-Newtonian behavior at high viscosity. The rheol. of I solution was described as a function of shear gradient, temperature, pH value, and added salt concentration The addition of Ca2+ gave insoluble I; the viscosity of I increased and thioxotropy was observed in the presence of small amount of Ca2+. Neg. thixotropy of I was observed in certain Ca2+ concentration

Key wordsSODIUM COMPOUNDSSOLUTIONMANNOSEPH VALUECALCIUM IONSEAWEEDPRODUCTSRHEOLOGICAL PROPERTYVISCOSITYTHIXOTROPYGULOSEALDOSES

DOI:

#### 扩展功能

## 本文信息

- ► Supporting info
- ▶ <u>PDF</u>(0KB)
- ▶[HTML全文](0KB)
- ▶参考文献

## 服务与反馈

- ▶把本文推荐给朋友
- ▶加入我的书架
- ▶加入引用管理器
- ▶复制索引
- ► Email Alert
- ▶文章反馈
- ▶浏览反馈信息

# 相关信息

- ▶ <u>本刊中 包含"钠化合物"的</u> 相关文章
- ▶本文作者相关文章
- 陈宗淇
- · 王宁华
- 韩恩山
- 陈娟
- 王光信

通讯作者