



# YAKIMA CHIEF, Inc.

www.yakimachief.com

555 WEST SOUTH HILL ROAD • POST OFFICE BOX 209 • SUNNYSIDE, WA 98944 • PHONE (509) 839-9022 • FAX (509) 839-5570

## PRODUCT INFORMATION SHEET

**PRODUCT NAME:** YC-Kettle Rho

**MANUFACTURER:** Yakima Chief, Inc.  
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Sunnyside, WA 98944  
U.S.A  
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### **DESCRIPTION:**

YC-Kettle Rho is dihydroiso-alpha acids in >35% w/w pure resin extract form. YC-Kettle Rho is produced from CO<sub>2</sub> hop extract by simultaneous isomerization and Borohydride reduction. Formulation and packaging of YC-Kettle Rho have been designed to make it a user friendly and an economical hop ingredient.

### **APPLICATION:**

Use YC-Kettle Rho as 100% of the hop bill or in conjunction with other light stable hop extracts for the hopping of light stable beers. YC-Kettle Rho is stable to light and will not contribute to the development of sun-struck flavors. YC-Kettle Rho is supplied as a pure resin extract to facilitate direct kettle addition. Kettle addition of YC-Kettle Rho is a convenient means of getting RIAA (reduced iso-alpha acids) into the beer. The kettle addition means that the hop acids will be present in the fermenter providing anti-microbial protection.

Use YC-Kettle Rho as part of your hop formulation to differentiate beers. Bitterness intensity is 0.7 times the bitterness per BU when compared to iso-alpha acids. The bitterness profile is smoother than for iso-alpha acids, leaving a full body mouth feel with very little bitter aftertaste. Formulation of the hop bill with various ratios of IAA:DHIAA:THIAA can provide a wide range of flavors.

YC-Kettle Rho can be perceived at high concentrations (>10 ppm).

### **USE RATE CALCULATIONS:**

The kettle addition of 400 gm of RIAA of YC-Kettle Rho per equivalent 100 hL of finished beer will provide 9 Bitterness Units. Note the above recommended addition rate is per 100 hL of finished beer. The effective addition rate will depend upon the desired hopping level and parameters within the individual breweries.

### **DOSING METHODS:**

*Yakima Chief recommends the direct, undiluted addition of YC-Kettle Rho into the brew kettle.*



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## **CHARACTERISTICS:**

**Flavor** of a solution in de-ionized water containing 10 mg/L of Dihydroiso-alpha acids:

- A fine bitterness with no other detectable flavors.

**Aroma** of a solution in de-ionized water containing 10 mg/L of Dihydroiso-alpha acids:

- None detectable

**Gushing Potential in Beer:** No increased potential observed

## **PACKAGING:**

Custom, depending upon the brewer's desired RIAA quantity per tin.

## **STORAGE:**

Unopened containers store at room temperature for 18 months. Opened containers should be used in 30 days.