



## Royal Crown Tech Plus AW Hydraulic Oils

### H1 Food Grade Hydraulic Oils

**Royal Crown Tech Plus AW Hydraulic Oils** should be used where hydraulic fluids and other mild lubricants are called for in equipment associated with food processing. This lubricant is able to withstand a wide temperature range while in use and storage. It also can effectively protect the machinery it's applied to under light to heavy loads. These oils provide anti-wear protection that meets all the requirements of major hydraulic pump manufacturers such as Cincinnati Milacron P-68, P-69, P-70 and Vicker's 104 vane pump wear test. USDA/NSF has approved

**Royal Crown Tech Plus AW Hydraulic Oils** under their H-1 specification for incidental contact with food. H1 lubricants can serve as a protective anti-wear and anti-rust lubricant for all machinery that is in use for food processing.

#### Product Features:

- H1 Food Grade Hydraulic Oils
- Excellent Rust Protection
- Superior Oxidation Resistance
- Non-Foaming
- Superior Anti-Wear
- Rapid Water Separation

Specifications and Approvals	Royal Crown Tech Plus AW
NSF H1	✓
ISO 32 – NSF #088522	✓
ISO 46 – NSF #088523	✓
ISO 68 – NSF #088524	✓

#### Customer Benefits:

- Better adhesion on surface
- Excellent lubrication under heavy loads
- Superior protection against water contact



#### Applications:

- Recommended and designed for hydraulic pumps and hydraulic applications in the food industry



## Typical Properties

### Royal Crown Tech Plus AW Hydraulic Oils

Product Number	819	820	821	822	823	824	857	Test Method
ISO Grade	10	15	22	32	46	68	100	-
Viscosity@40°C, cSt	11	15	21.5	32.5	46.5	68.2	98.3	
Viscosity@100°C, cSt	2.7	3.4	4.2	5.58	6.76	8.85	11.18	ASTM D445
Viscosity@100°F, SUS	65	83	113	169	240	354	512	
Viscosity@210°F, SUS	35.4	37.7	40.4	45	48.9	56.1	64.6	
Viscosity Index (VI)	95	95	96	98	98	98	98	-
Specific Gravity@60°F	0.86	0.86	0.86	0.86	0.86	0.86	0.87	ASTM 4052
API	33.2	33.2	33	32.2	32	31.7	30.9	-
Pour Point °C	-18	-18	-15	-15	-15	-15	-18	ASTM D97
Flash Point °C	177	187	199	209	219	245	260	ASTM D92
Color	0.5	0.5	0.5	0.5	0.5	0.5	0.5	ASTM D1500

These properties are typical of the current production. Variations that do not affect product performance are to be expected depending on blending and manufacturing locations. The information contained herein is subject to change without notice.

#### Health and Safety:

This product is unlikely to have any adverse health implications or safety hazards when used for its intended application. Avoid contact with skin, use resistant gloves when handling used oil. If skin comes in contact wash immediately with soap and water. For complete information on safe handling and product characteristics please refer to the Material Safety Data Sheet (MSDS) found on our website. [www.royalmfg.com](http://www.royalmfg.com) or call (918)-584-2671.

#### Packaging options:



55 Gal Drums



275/330 Gal Totes



>2000 Gal Bulk