



## Technical Data Sheet

### CASTROL ICEMATIC SW RANGE

**DESCRIPTION:**

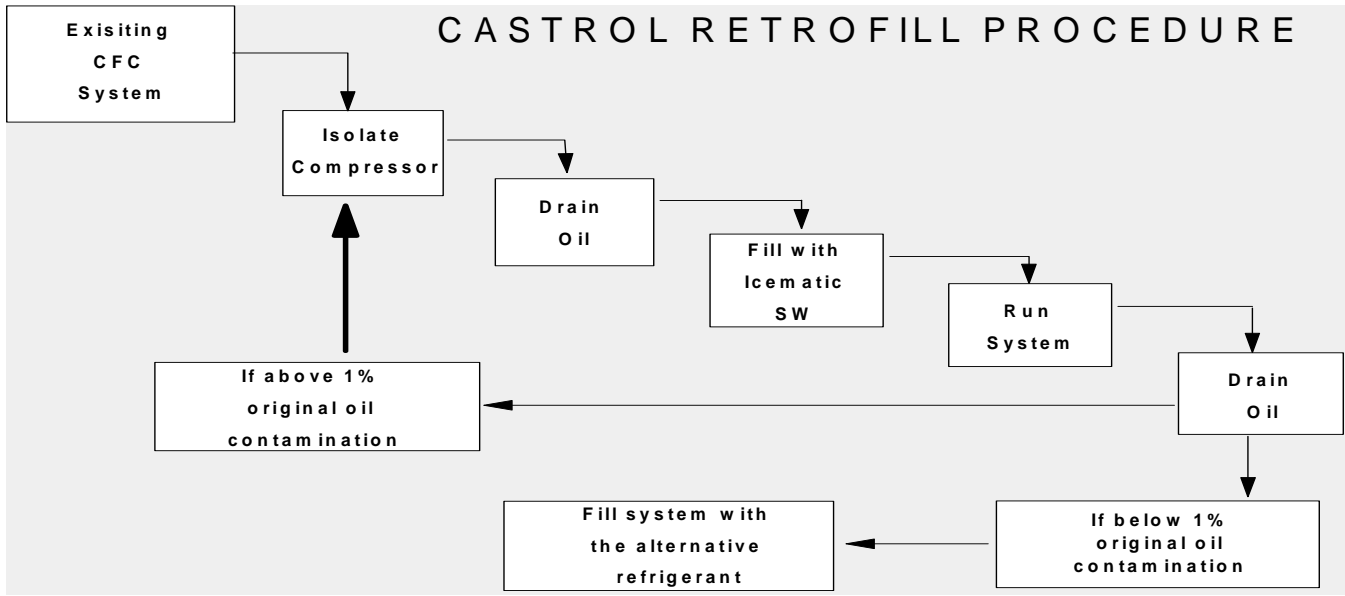
The Castrol Icematic SW range of lubricants is based on synthetic pentaerythritol esters, formulated using a highly effective low treat ashless additive package. They are completely wax free and have very low pour points to prevent blockage and to ensure clean evaporator performance. In addition, the products impart excellent oxidative and thermal stability as well as low temperature characteristics ensuring application over a wide temperature range.

**APPLICATION:**

- The Castrol Icematic SW range is formulated for use in refrigeration compressors using HFC type refrigerants.
- They represent a truly versatile range of lubricants, compatible with both large industrial systems and small domestic units.
- The polyester base stocks are new components, which have been specifically synthesized by Castrol for the purpose of compressor lubrication in conjunction with HFC refrigerants.
- Castrol Icematic SW has been tested with different refrigerants and found to be miscible with most CFC, HCFC and HFC type gases.
- The unique properties of Icematic SW have enabled Castrol to pioneer conversions of existing CFC and mineral oil equipment to R134a and Castrol Icematic SW.
- This is achieved at the minimum of expense and disruption through a process called Retrofill. As no expensive hardware changes are required, conversion of existing equipment using the “Castrol Retrofill Procedure” will lead to dramatic cost savings.

APPLICATION: DOMESTIC / INDUSTRIAL AIR CONDITIONING						
COMPRESSOR TYPE	SW 22	SW 32a	SW 46	SW 68	SW 68c	SW 100
Reciprocating: Hermetic	*		*			
Reciprocating: Semi - Hermetic	*	*	*	*	*	
Rotary	*	*	*	*		
Scroll		*	*	*	*	
Centrifugal		*		*	*	*
Screw				*	*	*

APPLICATION: MOBILE / AUTOMOTIVE AIR CONDITIONING						
COMPRESSOR TYPE	SW 22	SW 32a	SW 46	SW 68	SW 68c	SW 100
Reciprocating: Semi - Hermetic		*			*	*
Rotary Vane						*
Swash Plate						*



**PACKAGING:**

The Castrol Icematic SW range is available in 4 x 5lt cases, 25lt pails and 208lt drums. Additionally Icematic SW 32a is available in 12 x 1lt cases.

**TYPICAL CHARACTERISTICS:**

Castrol Icematic		SW 22	SW 32a	SW 46	SW 68	SW 68c	SW 100
Product code		39151	39164	39192	39111	39120	39177
Viscosity @ 40°C (cSt)	ASTM D445	22	32	46	68	68	100
Viscosity @ 100°C (cSt)	ASTM D445	4.4	5.5	6.8	8.5	8.8	11.3
Density @ 15.6 °C (kg/m <sup>3</sup> )	IP 365	1000	997	981	970	970	968
Pour Point (°C)	ASTM D97	< -60	-54	-45	-36	-36	-33
Viscosity Index	IP 226	128	119	112	102	100	98
Closed Flash Point (°C)	ASTM D93	240	234	234	246	250	258
Open Flash Point (°C)	ASTM D92	250	238	250	248	262	266
Total acid no. (mgKOH/g)	ASTM D664	0.15	< 0.05	0.15	0.13	0.06	< 0.05
Hydroxyl no. (mgKOH/g)	AOCS CD 13-60	< 3	< 3	< 3	< 3	< 3	< 3
Water (ppm)	ASTM D1744	50	100max	50	50	50	50
Onset of oxidation (°C)	BEM 139	256	264	273	276	274	271
Colour	ASTM D1209	300	300	300	300	300	300