

114.2 - Lubricating Oils

PLEASE NOTE: The tables are presented to facilitate comparisons among a family of materials to help customers select the best SRM for their needs. For specific values and uncertainties, the certificate is the only official source.

SRM	1085c	1818a	1819a	1848
Description	Wear Metals in Lubricating Oil	Chlorine in Lubricating Base Oils	Sulfur in Lubricating Base Oil	Lubricating Oil Additive Package
Unit Size	(10 ampoules (1.2 g each))	(set (5))	(set (5))	(100 g)

- Certified values are normal font
- Reference values are italicized
- Values in parentheses are for information only

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114.2(1)- Metals in Lubricating Oil

SRM Description Unit Size	1085c Wear Metals in Lubricating Oil (10 ampoules (1.2 g each))	1848 Lubricating Oil Additive Package (100 g)
Elemental Composition (mass fraction in mg/kg unless noted by an asterik * for %)		
Aluminum (Al)	292	
Arsenic (As)		
Barium (Ba)	306	
Boron (B)	304	0.137*
Cadmium (Cd)	301	
Calcium (Ca)	299	0.359*
Chlorine (Cl)	(120)	927
Chromium (Cr)	302	
Cobalt (Co)		
Copper (Cu)	298	
Hydrogen (H)		12.3*
Iron (Fe)	301	
Lead (Pb)	303	
Magnesium (Mg)	300	0.821*
Manganese (Mn)	299	
Molybdenum (Mo)	305	
Nickel (Ni)	306	
Nitrogen (N)		0.57*
Phosphorus (P)	304	0.788*
Potassium (K)	295	
Elemental Composition (mass fraction in mg/kg unless noted by an asterik * for %)		
Silicon (Si)	293	50
Silver (Ag)	298	
Sodium (Na)	300	
Sulfur (S)		2.3270*
Tin (Sn)	298	

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Titanium (Ti)	<i>300</i>	
Vanadium (V)	<i>285</i>	
Zinc (Zn)	<i>285</i>	0.873*

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114.2(2)- Sulfur and Chlorine in Lubricating Base Oil

SRM	1818a	1819a
Description	Chlorine in Lubricating Base Oils	Sulfur in Lubricating Base Oil
Unit Size	(set (5))	(set (5))
Elemental Composition (mass fraction in mg/kg)		
I	31.6	423.5
II	60.0	741.1
III	78.2	4022
IV	154.4	4689
V	234.0	6135

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