Composition of Materials

Composition of Materials used in wear parts as a guide to possible contamination levels in samples.

All figures are presented in ppm, except where noted and are typical to maximum values.

Element	Agate	Carbon Steel	Chrome Steel	Tungsten Carbide	Zirconia
Ag		0.3			<0.2
Al	Trace	300	300	30	70
As			<100	<10	<1
Au		<0.2			0.04
B				<10	
Ba				<10	160
Br					1
C		0.48%	2%	5.50%	
Ca		40		50	150
Cl					<10
Co		30	200	10%	3
Cr		1200	12%	50	<10
Cs					<1
Cu		250	200	30	<10
Fe	Trace	98%	86%	100	70
Ga					1
Hf					1.30%
In					0.01
K	Trace			30	<20
La					7
Mg					2%
Mn	Trace	7000	3500	50	3
Mo		100	100	50	<10
N				100	40
Na	Trace		<500	30	
Nb		2	50	100	<10
Ni		200	800	50	
P		<100	140	30	
Pb		5	<100	30	<10
Rb					<10
Re					<0.05

S		<350	100	50	
Sb		10		10	3
Sc					1
Se					<10
Si		2500	4500	50	220
Sn		20	<100		
Sr		0.3			1000
Ta		0.4		30	<1
Th		0.4			4
Ti			<100	30	450
U		<1			0.6
V		<100	200	30	0.1
W		7	200	84.50%	<2
Zn		10	<100	30	<10
Zr		<1	<100	<10	70.30%

Rare Earths

Ce					<10
Eu					0.5
Gd					<0.5
Lu					0.3
Nd					<1
Sm					<0.1
Tb					<0.3
Y		0.1			
Yb					1