Reference Assortment Kits

Metal Samples has selected some commonly used metals for non-destructive testing. Reference Assortment Kits can be very useful in performing the **Chemical Spot Test**. This test method is based on electrographic extraction of metal atoms from a surface and can be verified by testing on a known alloy. An additional use of these kits is to check the element content of an alloy by examining the color intensity of a chemical spot in comparison to a standard. The reagent chemicals can be tested on a metal standard to ensure the shelf life of the chemical has not been exceeded.

Another non-destructive evaluation that utilizes metal standards is the **Thermoelectric Alloy Separators Test**. This test measures the "EMF" generated by a heat junction of dissimilar metals. The magnitude of the "EMF" is a function of the metal's chemistry and physical characteristics.

Reference Kit No. KR5100 contains 44 different alloys and Reference Kit No. KR5101 contains 54 different alloys. Additional slots are provided with the kit to expand the selection of alloys to meet your specific requirements. The chemical analysis of each alloy in the kit has been tabulated from mill test reports and certified chemical analyses. These test results are recorded on an analysis sheet that accompanies the assortment. Alloy specimen sizes can be either 1" x 2" x 1/16" or 1" x 2" x 1/8".

Reference Kit No. KR5100

Contents:		
Al1100	800H	321
Al2024	825	347
Al3003	400	410
Al5052	20Cb3	416
Al5086	G3	420
Al6061	HC-276	430
CDA 110	HB-3	440C
CDA 260	Haynes 25	Ti Gr 2
CDA 360	17-4PH	F255
CDA 464	303	C1010
CDA 510	304	C4140
CDA 706	304L	C4340
CDA 715	316	Mg
600	316L	Zinc
625	317L	

Reference Kit No. KR5101

Contents:		
Al1100	800H	317L
Al2024	825	321
Al3003	400	347
Al5086	20Cb3	410
Al6061	G3	430
Al7075	HC-276	904L
CDA 110	HB-3	F255
CDA 122	HX	Ti Gr 2
CDA 260	Haynes 25	Ti Gr 7
CDA 360	Al-6X	Ti Gr 12
CDA 443	E26-1	C1010
CDA 464	Al29-4C	C1020
CDA 706	304	1 1/4Cr 1/2Mo
CDA 715	304L	2 1/4Cr 1Mo
200	309S	5Cr 1/2Mo
600	310S	9Cr 1Mo
625	316	C4140
X750	316L	C4340