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Development of a Primer/Topcoat and Flexible Primer for Aluminum Mar 20, 1987 36 pages

Authors: Charles R. Hegedus; NAVAL AIR DEVELOPMENT CENTER WARMINSTER PA AIR VEHICLE AND CREW SYSTEMS TECHNOLOGY DIRECTORATE

Full Text

... preventive organic coatings have been developed for use on **aluminum** and specifically for application on Navy aircraft. They provide ... systems. The first coating can be applied directly to an **aluminum** substrate and perform as a self-priming topcoat. It consists of ... binder. It contains strontium chromate zinc chromate, **barium** chromate, and zinc molybdate corrosion inhibiting pigments. ... of Mil-P-23377 and has significantly more flexibility. **Aluminum** specimens coated with the NADC flexible primer remained in 5% salt spray for one year without any corrosion of the **aluminum** or damage to the coating.

Tunable Parametric Oscillators between 1.0 Micrometers - 5.0 Micrometers. Oct 1972 25 pages

Authors: Gregory R. Osche; ARMY ELECTRONICS COMMAND FORT MONMOUTH N J

Full Text

... coherent radiation, frequency multipliers), (*infrared radiation, tuning devices), crystals, optical pumping, infrared lasers, lithium compounds, niobates, **barium** compounds, sodium compounds, titanates, lithium compounds, optical propertieslasers, yttrium **aluminum** garnet, lithium niobates, lithium tantalate, neodymium lasers, **barium** niobate, **barium** titanates, proustite, sodium niobateA general discussion of the practical aspects of continuously tunable parametric down-conversion techniques are discussed ...

Controlled Heterogeneous Nucleation of Melt-Textured YBa2Cu3O6+x by Addition of Al2O3 Particles 1992 20 pages

Authors: Yan L. Chen; Lijie Zhang; Helen M. Chan; Martin P. Harmer; LEHIGH UNIV BETHLEHEM PA

Full Text

The reaction between alumina and yttrium **barium** cuprate subjected to a melt-texturing heat-treatment was studied. Microstructural examination of quenched, partially transformed samples revealed that at approx. 1050 deg C (which is above the incongruent melting temperature of YBa2Cu3O6 ... 123 occurred exclusively at the particles. A reaction sequence for the formation of the Ba6y2A14015 is put forward, together with a discussion of the possible nucleation mechanisms for the 123. Yttrium **Barium** Copper Oxide(YBCO), Peritectic, Melt-texturing, Nucleation, **Barium** Yttrium **Aluminum** Oxide (Ba6y2A14015)

Mobilization of Trace Elements in Aquifers by Biodegradation of Hydrocarbon Contaminants Dec 1997 218 pages

Authors: Scott L. Kearney; AIR FORCE INST OF TECH WRIGHT-PATTERSONAFB OH

Full Text

... metals with drinking water maximum contaminant levels (MCLs), mercury and silver were detected the least frequently. **Barium** and copper were detected at the sites, but fewer than 2.5 percent of the samples exceeded their MCLs. ... antimony and lead exceeding their MCLs in 19 percent and 10 percent of samples, respectively. Higher concentrations of **barium** and manganese were most strongly correlated with petroleum hydrocarbon contamination, and relatively strong correlations also existed for **aluminum**, arsenic, iron, and lead. Major cations such as calcium, magnesium, sodium and potassium were least ...

Ballistic Impact Flash Resulting from Complete Projectile Penetration of Titanium Targets Dec 1975 144 pages

Authors: Joseph G. Aja; AIR FORCE INST OF TECH WRIGHT-PATTERSONAFB OH SCHOOL OF ENGINEERING

Full Text

... this flash. The titanium flash was compared with the flash resulting from identical spheres impacting **aluminum** targets. Visually the titanium flash was significantly larger, but measurement of the spectral irradiance at ... the same. The duration time of the titanium flash was approximately five times as long as the **aluminum** flash. The flash was found to occur as two events, each of which had distinct flash intensity ... the impact surface of the titanium target with either white polyurethane paint, white **barium** titanate silicone paint, or white flurocarbon paint reduced the down range flash only a ...

MATERIAL - FINISHES AND COATINGS - PRIMER PIG MENTS SALT SPRAY CORROSION RESISTANCE, Dec 27, 1956 15 pages

Authors: L.A. Mappus; R.H. WHIDDEN; W.M. SUTHERLAND; GENERAL DYNAMICS/POMONA CALIF

Full Text

Five pigments, potassium zinc chromate; calcium chromate; strontium chromate; **barium** chromate; and zinc tetroxychromate, were incorporated with two different paint vehicles, an alkyd resin and a coumarone - indene resin vehicle, suitable driers and solvents, and applied to clad 7075 T6 **aluminum** alloy, AZ31, Condition H

magnesium alloy, normalized 4130 steel, and annealed Type 321 stainless steel. The several samples were exposed to 20% salt spray exposure for 1500 hours to observe weight ...

DEVELOPMENT OF THE HIGH RATE METAL-AIR DEPOLARIZED BATTERIES Jun 1966 64 pages

Authors: Allen Charkey; YARDNEY ELECTRIC CORP NEW YORK

Full Text

... all cases, best performance was obtained in a 'free' electrolyte system. The magnesium-air test cells, used only for exploratory studies, delivered specific energies of 50-55 Watt-hrs./lb. The investigation of calcium, **aluminum**, and **barium** air systems is still in an early exploratory stage. Particular interest however, is being given to calcium in an organic-aqueous electrolyte with various corrosion inhibiting agents. Heat transfer by means of air convection ...

Recovery of Pyrotechnic Ingredients Using Supercritical Fluids Jan 21, 1998 16 pages

Authors: Glenn T. Hong; APHIOS CORP WOBURN MA

Full Text

Many pyrotechnics contain valuable resources which could be used in commercial applications, for example metals (e.g. magnesium, **aluminum**); metallic salts of copper, strontium, and **barium**; oxidizer (e.g. sodium nitrate, potassium perchlorate); binders such as viton, and dyes which have reclaimed value. The Navy is seeking technology that can recover the valuable ingredients from pyrotechnic flares and smoke munitions in an environmentally acceptable manner. This Phase I program studied the ...

Apparatus for Measuring Emittance and Absorptance and Results for Selected Materials Jan 1965 23 pages

Authors: Henry B. Curtis; Ted W. Nyland; NATIONAL AERONAUTICS AND SPACE ADMINISTRATION CLEVELAND OH LEWIS RESEARCH CENTER

Full Text

... . A description of a blackbody normal absorptance standard is given. Results are given for the following surfaces: four plasma-sprayed ceramics, zirconium silicate, strontium titanate, calcium titanate, and **barium** titanate; two ceramics applied by the Rokide process, Rokide MA and Rokide ZS; anodized **aluminum**, uncoated and electrophoretically blackened; and a white epoxy-based paint. The accuracy of the apparatus is discussed.

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