

American Research and Testing Inc.

14934 SOUTH FIGUEROA STREET
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CLIENT: Aeroflex USA, Inc.
282 Industrial Park Road
Sweetwater, TN 37874

NUMBER
220-01-02-1
February 5, 2020

SUBJECT: VOC of Adhesive

REFERENCE:

Tests and charges were authorized by Chum Kotcha on 1/8/2020; purchase order # PO-200022.

SAMPLE DESCRIPTION:

On the client submitted one container of adhesive on 1/16/2020, identified as:
Aeroseal LVOC

REQUEST:

Determine VOC of the product.

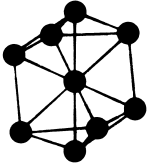
METHOD:

VOC of the sample was determined from total volatile content, density, and exempt solvent content, following the methodology specified in AQMD Method 304. Total volatile matter was determined gravimetrically per ASTM D2369. Density at 25 °C was determined per ASTM D1475, using a calibrated pycnometer. Moisture content was assumed to be zero and was not assayed. Exempt solvent content (acetone) was determined by GC-FID, per ASTM D6133, supported by headspace GC-MS for identification of exempt compounds. VOC was calculated from these data, and expressed in units of weight percent, grams per liter of material, and grams per liter of coating.

Raquel Diaz, B.A.
Chemist

SIGNED FOR THE COMPANY
by

Barbara Belmont, M.S.
President



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RESULTS:

	Aeroseal LVOC Received 1/16/2020
Non-volatile Matter (wt%) ASTM D2369	26.20 <i>(std error = ±0.07; n=3)</i>
Water Content (wt %)* *assumed to be zero, not experimentally determined	0*
Density (g/mL) ASTM D1475	0.835 <i>(std error = ±0.012; n=4)</i>
Exempt Solvent (Acetone) (wt %) ASTM D6133	68.22 <i>(std error = ±1.63; n=2)</i>
VOC, regulatory (less exempts) (wt%)	5.6 <i>(95% confidence = ±14.8, df = 1)</i>
VOC of material (less exempts) (g/L)	47 <i>(95% confidence = ±124; df = 1)</i>
VOC of coating (less exempts) (g/L)	167 <i>(95% confidence = ±445; df=1)</i>