

DESCRIPTION

Acetone (also known as dimethyl ketone and 2-propanone) is a clear, colorless, low-boiling, flammable, volatile liquid characterized by rapid evaporation and a faintly aromatic, sweetish odor. It is readily miscible in most organic solvents and completely miscible, in all proportions, in water. Acetone is one of the simplest aliphatic ketones, and is an excellent solvent for a wide range of gums, resins, waxes, fats, greases, oils, dyestuffs and cellulose. It is widely used as a chemical intermediate in the production of methyl isobutyl ketone and other solvents, and in the production of such important chemicals as bis-phenol-A and methyl methacrylate. It is also used in the manufacture of a wide variety of coatings and plastics.

PHYSICAL AND CHEMICAL PROPERTIES

TYPICAL PROPERTIES	SPECIFICATIONS	TEST METHOD
Appearance	Clear water white liquid	Visual
Color, APHA	5 Max.	D-1209
Specific Gravity, 25°C/25°C (77°F/77°F)	0.7860 - 0.7890	D-4052
Specific Gravity, 20°C/20°C (68°F/68°F)	0.7910 - 0.7930	D-4052
Purity, Weight % (Wt. %)	99.5 Min.	GC*
Water, Wt. %	0.3 Max.	D-1364
Acidity as Acetic Acid, Wt. %	0.002 Max.	D-1613
Alkalinity, Wt. %	0.001 Max.	D-1614
Nonvolatile Matter, ppm	10 Max.	D-1353
Water Solubility	Miscible, distilled water	D-1722
Reducing Substances (Permanganate Time Test)	Color retains 120 min.	D-1363
Identification	Passes	GC/IR*

*GC = Gas Chromatography; IR = Infrared Spectroscopy

CONTACT ADVANSIX

To learn more about Acetone Low Water Grade, visit AdvanSix.com

ADVANSIX.COM
1-844-890-8949 (TOLL FREE, U.S./CAN.)
+1-973-526-1800 (INTERNATIONAL)

NOTE

The values presented in this data sheet are typical values and are not to be interpreted as product specifications.

ADVANSIX HEADQUARTERS

300 Kimball Drive, Suite 101
Parsippany, NJ 07054

Although AdvanSix Inc. believes that the information contained herein is accurate and reliable, it is presented without guarantee or responsibility of any kind and does not constitute any representation or warranty of AdvanSix Inc., either expressed or implied. A number of factors may affect the performance of any products used in conjunction with user's materials, such as other raw materials, application, formulation, environmental factors and manufacturing conditions among others, all of which must be taken into account by the user in producing or using the products. The user should not assume that all necessary data for the proper evaluation of these products are contained herein. Information provided herein does not relieve the user from the responsibility of carrying out its own tests and experiments, and the user assumes all risks and liabilities (including, but not limited to, risks relating to results, patent infringement, regulatory compliance and health, safety and environment) related to the use of the products and/or information contained herein.

August 2019-4, Printed in U.S.A.
©2019 AdvanSix Inc. All rights reserved.



PROCESSING GUIDELINES

MATERIAL HANDLING

Aegis® H55WC01 nylon compound is supplied in sealed containers and drying prior to processing is typically not required. However, high moisture is known to be a primary cause of processing issues. If drying becomes necessary, a dehumidifying or desiccant dryer operating at 70°C (158°F) is recommended. Drying time is dependent on moisture level. Safe handling procedures can be found in the Safety Data Sheet available on [AdvanSix.com](https://www.advansix.com).

EXTRUSION GUIDELINES

Melting point: 220°C (428°F)

TYPICAL EXTRUSION TEMPERATURE PROFILE

Barrel: 249–266°C (480–510°F)

Adapter: 260–266°C (500–510°F)

Die: 260–266°C (500–510°F)

Process Melt Temperature: 260–270°C (500–518°F)

SCREW PARAMETERS

Metering Section: 40%

Transition Section: 3 to 4 flights

Feed Section: Balance of screw length

Compression Ratio: 3.5:1 to 4.0:1

L/D Ratio: 24:1

METERING SECTION FLIGHT DEPTH

SCREW DIAMETER	RECOMMENDED DEPTH
1"	0.055"
1.5"	0.060"
2"	0.070"
2.5"	0.080"
3.5"	0.100"
4.5"	0.115"
6"	0.135"

NOTE

The values presented in this data sheet are typical values and are not to be interpreted as product specifications.

Although AdvanSix Inc. believes that the information contained herein is accurate and reliable, it is presented without guarantee or responsibility of any kind and does not constitute any representation or warranty of AdvanSix Inc., either expressed or implied. A number of factors may affect the performance of any products used in conjunction with user's materials, such as other raw materials, application, formulation, environmental factors and manufacturing conditions among others, all of which must be taken into account by the user in producing or using the products. The user should not assume that all necessary data for the proper evaluation of these products are contained herein. Information provided herein does not relieve the user from the responsibility of carrying out its own tests and experiments, and the user assumes all risks and liabilities (including, but not limited to, risks relating to results, patent infringement, regulatory compliance and health, safety and environment) related to the use of the products and/or information contained herein.

Aegis® is a registered trademark of AdvanSix Inc., August 2023-5
©2023 AdvanSix Inc. All rights reserved.

CONTACT ADVANSIX

Contact AdvanSix to learn more about the benefits of Aegis® Nylon Resins.

[ADVANSIX.COM](https://www.advansix.com)

1-844-890-8949 (TOLL FREE, U.S./CAN.)

+1-973-526-1800 (INTERNATIONAL)

ADVANSIX HEADQUARTERS

300 Kimball Drive, Suite 101

Parsippany, NJ 07054



ADVANSIX
Good chemistry.