

DESCRIPTION

Acetone Low Water Grade (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

*GC = Gas Chromatography

CONTACT ADVANSIX

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

ADVANSIX.COM

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+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

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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"

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CONTACT ADVANSIX

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

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Good chemistry.