




# 2 AISIN Clutch Characteristics

## Clutch Disc Characteristics

- [Extended Product Life] ● Improved product life by adopting facings with excellent heat and wear resistance.
- [Improved Clutch Release Performance] ● Clutch drag prevented by using circumferential grooves in the facings and ensuring sufficient groove depth.
- Improved spline sliding properties by using nickel coated splines.
- [Smoother Engagement] ● Smoother clutch engagement by adopting facings with excellent anti-shudder properties.
- [Reduced Vibration/Noise] ● Reduced drive system vibration and noise through the use of a rigid clutch disc structure and reduced deflection of immobile cushion rubbers.

### <Clutch Disc Types>




Torsion Type	Rubber Torsion	Coil torsion	
Hysteresis Structure	Standard Type	Standard Type	Variable Hysteresis Type
Clutch Hub Structure	Integral Hub	Integral Hub	Dual Hub
Characteristics	 <ol style="list-style-type: none"> <li>1. Drive system for medium to high torque ranges. Reduced vibration/noise.</li> <li>2. Lightweight and low-inertia.</li> <li>3. Long torsion component life.</li> </ol>	 <ol style="list-style-type: none"> <li>1. Drive system for medium to high torque ranges. Reduced vibration/noise.</li> <li>2. Lightweight and low-inertia.</li> <li>3. Long product life for torsion component.</li> </ol>	 <ol style="list-style-type: none"> <li>1. Reduced vibration/noise for all drive systems from low to high torque ranges.</li> <li>2. Superior performance compared to integral hub.</li> </ol>
Applicable Vehicle	FF gasoline vehicle	FR gasoline vehicle	Diesel vehicle

\* Some features may not be applicable.

## Clutch Cover Characteristics

- [Extended Product Life] ● Reduced lever wear by heat treated diaphragm spring.
- Reduced load fatigue by performing the hot-setting process on the diaphragm spring.
- [Improved Clutch Release Performance] ● Improved clutch-release performance by using a ribbed diaphragm spring.
- Improved clutch-release performance by using a DST (Diaphragm Spring Turnover) type clutch cover.
- [Smoother Engagement] ● Improved shudder resistance by enhanced accuracy in both the bearing adherence strength and pressure plates movement.

### <Clutch Cover Types>

Spring Type	Diaphragm Spring		Coil Spring
Clutch Release Method	Push Method	Pull Method	Push Method
Characteristics	 <ol style="list-style-type: none"> <li>1. Long lasting DST type of clutch cover provides excellent clutch-release performance.</li> <li>2. Lightweight and compact.</li> </ol>	 <ol style="list-style-type: none"> <li>1. Superior clutch-release efficiency.</li> <li>2. Reduced clutch pedal pressure.</li> </ol>	 <ol style="list-style-type: none"> <li>1. Superior clutch-release efficiency.</li> <li>2. Easy replacement.</li> </ol>
Applicable Vehicle	Applicable in a broad range of vehicle types from sub-compact vehicles to medium size trucks.	Applicable in high-output vehicles (high performance vehicles, etc.).	Applicable in small and medium-sized trucks. Ideal for diesel applications.

\* Some features may not be applicable.