



Application: Sprocket Shaft

More torque using Orvar Supreme



The Super Twin Top Fuel Drag racing bike that Karling drives is extremely powerful. Especially at the start, all components in the engine and chassis are put under a lot of stress.

The torque on the outgoing shaft from the engine is enormous, causing conventional steel grades to twist. By using **Orvar Supreme** the risk for failure is eliminated because it combines high strength with good ductility.

Characteristics

<i>Orvar Supreme</i>	
<i>Delivery hardness & Maximum hardness</i>	Soft annealed to 180 HB, maximum hardness approx. 55 HRC.
<i>Strength</i>	$R_m=1820 \text{ N/mm}^2$, $R_{p0,2}=1520 \text{ N/mm}^2$ at 52 HRC and 21 °C
<i>Toughness</i>	Charpy V approx. 15 J at 21 °C and 45 HRC
<i>Fatigue</i>	The clean material guarantees good fatigue