

# ONYX 3200

## AUTOMATIC TRANSMISSION FLUID ADDITIVE

ONYX 3200 is a versatile automatic transmission fluid additive package formulated to meet the performance requirements of General Motors, Ford and Allison transmissions. ONYX 3200 provides excellent high temperature oxidative stability, corrosion and wear protection, anti-shudder durability and optimized frictional properties, as well as sludge and deposit prevention performance. ONYX 3200 is recommended for GM DEXRON® III G/H and Ford MERCON® performance levels. It can also be used at a lower treat-rate for lower performance applications satisfied by 'Type A Suffix A' (TASA) fluids as well as DEXRON II D/E®.

### Treat Rates:

<b>8.3 wt% of ONYX 3200 in suitable base stocks meets the requirements of,</b>	
GM DEXRON® III-H, III-G, III-F, III-E, III-D	Allison TES, 389
Ford MERCON®	Ford M2C138-CJ, M2C 166-H Fluids
MAN 339 Z1 and V1, Z2 and V2	MB 236.1, 236.5, 236.6, 236.7, 236.9
Voith 55,6335 and 55,6336	Volvo 97340, 97341
ZF TE-ML 02F, 03D, 04D, 09, 11A/B, 14A/B, 16L, 17C	Chrysler transmissions prior to Chrysler MS-9602 or MS-7176
Allison C-4 Fluids	Caterpillar TO-2 Fluids
<b>7.7 wt% of ONYX 3200 in suitable base stocks meets the requirements of,</b>	
DEXRON® IIE / DEXRON® IID	
<b>6.0 wt% of ONYX 3200 in suitable base stocks meets the requirements of,</b>	
DEXRON® II	
<b>4.0 wt% of ONYX 3200 in suitable base stocks meets the requirements of,</b>	
Type A Suffix A	

DEXRON® is a registered trademark of General Motors Corporation. MERCON® is a registered trademark of Ford Motor Company.

For further information contact ONYX representative.

### Physical / Chemical Properties\*

Parameters	Method	Specifications	Typical Results
Specific Gravity @ 15.6°C (60°F)	ASTM D1298	Report	0.920
Viscosity @ 40°C, cSt	ASTM D445	Report	3100
Viscosity @ 100°C, cSt	ASTM D445	Report	290
Flash (PMCC), °C	ASTM D92	Report	150
Nitrogen, wt%	ASTM D5291	Report	0.80
Phosphorus, wt%	ASTM D4951	Report	0.90

\*The above characteristics are not specifications and are provided to indicate the typical values measured on the product.

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**GENERAL HANDLING INSTRUCTIONS:**

Neoprene or nitrile rubber gloves and safety goggles should be worn for handling. Material safety data sheet should be consulted for specific information and for information on health and safety.

**Temperature Recommendations:**

<b>Unloading:</b>	<b>Temperature</b>	
Pumping temperature	60°C	140°F
Maximum temperature	60°C	140°F
<b>Storage:</b>		
Maximum temperature for long term storage	45°C	113°F
<b>Blending:</b>		
Max. Base oil temperature for mechanical or in-line mixing	60°C	140°F

**Equipment Recommendations:**

Type of Pump	Positive Displacement
Type of transfer line	Ball lunched, Insulated, Steam Traced Using 107°C/225F Steam Max.
Transfer Line Size	2-3inch/5-8cm.

**Heat Source:**

Type	Steam 107°C/225°F max.
Storage Tank	Suction Heater Recommended

Holding the material in excess of recommended temperature may cause separation or chemical degradation. If product has been stored below its pour point temperature it should be heated to 21°C (70°F) before using.