

## Certificate of Analysis

PRODUCT NAME: XTeer Dot-4

DATE : 2017.05.25

ITEM	METHOD	SPECIFICATION	RESULT
APPEARANCE (Conc.)	Visual	Clear & Bright	Clear & Bright
DENSITY (15°C, kg/m <sup>3</sup> )	KS M 2141	1,030~1,060	1,054
VISCOSITY (-40°C, mm <sup>2</sup> /s)	KS M 2141	Max. 1500	1200
VISCOSITY (100°C, mm <sup>2</sup> /s)	KS M 2141	Min. 1.5	2
PH (50%)	KS M 2141	7.0~11.5	8.82
RESERVE ALKALINITY(50%, ml)	KS M 2141	10.0~12.0	10.4
FLASH POINT (°C)	KS M 2141	Min. 80	126
WATER CONTENT (wt%)	KS M 2141	Max. 0.15	0.03

FLUIDITY AND APPEARANCE AT LOW TEMPERATURE	-40±2°C 144±4.0h	Appearance after warming to room temp	Clear	Clear	
		Stratification, sedimentation, sludging	None	None	
		Time for air bubble to travel to top 10 sec max	2''56	2''56	
	-50±2°C 6±0.2h	Appearance after warming to room temp	Clear	Clear	
		Stratification, sedimentation, sludging	None	None	
		Time for air bubble to travel to top 35 sec max	3''48	3''48	
EVAPORATION (100±2°C)	Wt% loss		KS M 2141	Max. 80	60
	Properties of the solution after test	Appearance 23±5°C	Gritty or abrasive Precipitate in residue	None	None
		Low Temp Liquidity -5±1°C 60±10min	KS M 2141	Min. 5mm	5mm

Hyundai Oilbank certifies the above statement of quality to be true and correct.

Seong-ho Cho  
 Team Leader of Lubricants Technology Team  
 Hyundai Oilbank Co., Ltd.