



## ■ USK – 100 BY PAC LV

<b>DESCRIPTION</b>	Being classified as Polyanionic Cellulose Low Viscosity (PAC LV) by the industry, USK - 100 BY is a low molecular weight, water soluble anionic polymer of sodium salt of carboxymethyl ether of cellulose, tailored for use in water based fluid systems where no additional viscosity increase is desired.	
<b>TYPICAL PROPERTIES</b>	Appearance	Free Flowing White to Creamish Powder
	Moisture %	max. 10
	pH (1%)	7 – 11
<b>FUNCTION</b>	The primary function of USK - 100 BY is to reduce and control the API filtration rate while stabilizing the rheology of the mud without substantially increasing the viscosity regime of the fluid system. It also provides shale inhibition as a protective colloid and improves the filtercake quality and stability between the wellbore and the formation.	
<b>FEATURES</b>	Its unique characteristic is its High Degree of Substitution which ensures its efficiency even at low concentrations. It is compatible with other drilling fluid additives and applicable in dispersed or non dispersed, Fresh water, Sea water and Salt Saturated water fluid systems.	
<b>PERFORMANCE</b>	Apparent Viscosity* (cPs)	max. 30
	Filter Loss* (ml)	max. 16
	* As referenced in API	
<b>CONCENTRATION</b>	The recommended initial treatment for USK – 100 BY is from 2 to 3 lb/bbl (5.7 to 8.5 kg/m <sup>3</sup> ) depending on the salt level, other solid content and water quality.	
<b>LIMITATIONS</b>	Elevated temperatures will reduce the viscosity of the fluid containing USK – 100 BY. To avoid the thermal thinning, using an oxygen scavenger or a thermal stabilizer is recommended in excess of 120°C (250°F) in order to protect the polymer.	
<b>MIXING</b>	USK – 100 BY should be added to the solution by using high speed conventional mixers at a uniform rate and slowly in order to avoid lumping or fish eye formation and delayed dispersion.	
<b>HANDLING</b>	USK – 100 BY is non toxic for environment and not a dangerous material for transport regulations. The product is packed in 25kg moisture proof kraft paper bags and should be stored cool indoors.	