



# Paper Machine/Paper Mill Hydraulic Oils

## Typical Specifications

Engine Armour Paper Machine/Paper Mill Hydraulic Oils meet the formidable challenge of equipment diversity that hydraulic oil might encounter. Most modern paper machines have a “wet” end and “dry” end. The dryer section (a dry end) is exposed to very high temperatures of super heated steam used in the drying process and may possess hundreds of roller bearings requiring lubrications.

These oils are formulated to allow very long service life, possessing excellent oxidation performance, thermal stability, good demulsibility and good rust protections. A high level of detergency has been added along with an EP agent and chemical components to control wear, oxidation, sludge, corrosion and foaming. The product is specifically formulated to provide robust pump and filtrations performance in excess of 5,000 hours, even in the presence of incidental water contamination.

Applications: (Denison HF-0,1,2), (Vickers M-2950-S, I-2860-S), (Cin.Lamb P-68/69/70, P-38,54,55,57), (US Steel 126, 127,136), (Sunstrand), (Rexroth RE 90220), (Racine), (Parker), (AAMA DIN51524 part 2), (SEB 181222), (SAE MS1004), and (AFNOR NF 48-603)

<b>ISO Grade</b>	<b>15</b>	<b>22</b>	<b>32</b>	<b>46</b>	<b>68</b>	<b>100</b>	<b>150</b>	<b>220</b>
<b>API Gravity</b>	<b>31.7</b>	<b>31.3</b>	<b>30.4</b>	<b>31.8</b>	<b>31.1</b>	<b>29.7</b>	<b>28.7</b>	<b>27.8</b>
<b>Viscosity cSt</b>								
<b>@ 40 C</b>	<b>15.4</b>	<b>22.0</b>	<b>31.8</b>	<b>45.9</b>	<b>68.0</b>	<b>100</b>	<b>150</b>	<b>220</b>
<b>@ 100 C</b>	<b>3.4</b>	<b>4.3</b>	<b>5.5</b>	<b>6.9</b>	<b>9.0</b>	<b>11.5</b>	<b>14.6</b>	<b>19.1</b>
<b>Vis Index</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>
<b>Flash Point C</b>	<b>180</b>	<b>190</b>	<b>200</b>	<b>200</b>	<b>210</b>	<b>220</b>	<b>230</b>	<b>240</b>
<b>Pour Point C</b>	<b>-36</b>	<b>-33</b>	<b>-30</b>	<b>-27</b>	<b>-24</b>	<b>-18</b>	<b>-12</b>	<b>-09</b>

The data presented in this specification sheet are believed to be accurate; however, Engine Armour shall not be liable for its content and makes no warranty with respect thereto.