

表5 AP19环保橡胶油与国外同类橡胶油理化性质对比

项 目	辽河石化产品		国外同类产品	
	AP19-2	AP19-1	VIVATEC500	VIVATEC700
密度(15℃)/(Mg·m ⁻³)	0.951 4	0.953 6	0.942 0	0.948 0
运动粘度(100℃)/(mm ² ·s ⁻¹)	17.8	10.39	19.6	29.0
苯胺点/℃	71	60	68	87
闪点/℃	238	203	271	250
折光率 n_D^{20}	1.524 4	1.522 0	1.528 1	1.523 0
PCA质量分数×10 ²	2.5	2.0	2.6	2.8
苯并(a)芘含量/(mg·kg ⁻¹)	未测出	未测出		
8种PAHs含量/(mg·kg ⁻¹)	1.1	1.1		
碳型分布/%				
C _A	20.3	20.0	25	20
C _N	38.5	47.6	31	34
C _P	41.2	32.4	44	46

从表5可以看出,由辽河油田环烷基原油馏分油研制的AP19环保橡胶油运动粘度较低,PCA、苯并(a)芘和8种PAHs含量均满足欧盟环保指标要求,是一种优质的环保橡胶油。

4 结语

(1) 辽河油田环烷基原油馏分油环烷烃、芳烃

含量较高,是研制环保橡胶油的理想原料。

(2) 辽河石化利用辽河油田环烷基原油资源,采用加氢-糠醛组合精制工艺生产的SBR1778和SBR1778E专用环保橡胶油以及NAP10,NAP14和AP19环保橡胶油的理化性质与国外同类产品相当,在环保充油SBR和子午线轮胎生产中应用效果良好。

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Development and Application of Environmentally Friendly Rubber Oil Products

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Abstract: This paper presents the physical and chemical properties and application of environmentally friendly rubber oils produced using naphthenic crude oil from Liaohe Oilfield by CNPC Liaohe Petrochemical Company, and compares them with similar foreign products. The naphthenic and aromatics content of the naphthenic crude distillate from Liaohe Oilfield is high which makes it an ideal raw material for the preparation of environmentally friendly rubber oil. SBR1778 and SBR1778E environmentally friendly rubber oil which are produced by hydrogenation-furfural refining process are now widely used. NAP10, NAP14 and AP19 environmentally friendly rubber oil show similar physical and chemical properties as foreign products and are well applied in radial tires.

Key words: rubber oil; environmentally friendly; naphthenic crude oil; oil-extended styrene butadiene rubber; radial tire

卡博特组建气相法白炭黑合资企业

中图分类号:TQ330.38⁺3 文献标志码:D

卡博特中国(上海)公司与内蒙古乌海恒业昌有机硅有限公司(HYC)组建了合资企业,将投资6 000万美元在乌海建设年产8 000 t气相法白炭黑生产装置。卡博特持有合资公司的80%股份,

HYC持有20%股份。新装置预计从2017年初开始建设,2019年建成。该项目将使卡博特满足气相法白炭黑市场不断增长的需求。

目前卡博特在我国上海、邢台、江西和天津拥有4个生产基地。乌海气相法白炭黑生产装置将成为卡博特在全球的第7套气相法白炭黑生产装置。

(钱伯章)