



Characterization of Thermal and Hydrodynamic Properties for Microencapsulated Phase Using the SPSS Method

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Abstract: Thermal conductivity is the assets of a fabric that conducts warmness. Lower than materials with higher thermal conductivity Materials with thermal conductivity are low throughout Heat transfer occurs at cost. This characteristic the temperature is established and its reciprocal heat resistance The 3 primary thermal houses Foods have accurate heating, thermal conductivity and Heat dif-fusion. Specific heat is using 1°C The temperature of a kg substance The amount of heat required to raise Three simple warmth Treat-ments used in food safety include: Pasteurization, in which food is about sixty-two degrees Half an hour or seventy-two in Celsius 15 to 17 seconds at °C treatment is provided; Hot filling, including liquid Keeping foods and juices in containers are boiled earlier than; And Steam treatment under pressure carried out inside the processing approach, Thermal characterization of PCM Evaluation of melt-ing temperature by a differential scanning calorimeter (DSC) to det done, and the heat of fusion of the fabric (latent heat) is analyzed. Perkin Elmer Diamond DSC; The consequences are analyzed the use of Pyris 7.0 software. Thermal properties relate to a fabric's re-action when heat is carried out to a solid, a liquid, or a gasoline. This response may be an increase in temperature, a phase trade, a change in period or extent, the initiation of a chemical response, or a alternate in some other physical or chemical quantity. Research significance: To characterize the investigated fibers three methods are used suitable for evaluating the differences inside the systems of the fiber ad-ditives. FTIR spectroscopy evaluation revealed High in Mezilaurusitauba and puriti fibre Extraction contents at 2920 and 2850 cm⁻¹ May be associated with the best bands in, this Be careful when using pads and other pads means to be. Lignocellulosic Compare the crystallinity between fibers X-ray diffractometry results, Dipteryxodorata and guarava fiber are cellulose chains More in supplemental prepared formto see with FTIR spectroscopy Shows that are used. crystallinity, main to better crystallinity. The mixed consequences display that water related to lower amounts of extractives and better crystallinity and better crystallinity slows down the degradation process and increases the thermal stability of lignocelluloses fibres. Method: SPSS statistics is a multivariate analytics, business intelligence, and criminal investigation data management, advanced ana-lytics, developed by IBM for a statistical software package. A long time, spa inc. Was created by, IBM purchased it in 2009. The brand name for the most recent versions is IBM SPSS statistics. Evaluation parameters: Eucalyptusgrandis, Pinuselliottii, Jute, Dipteryxodorata, Ramie, Sisal and Buriti. Result: The Cronbach's Alpha Reliability result. The overall Cronbach's Alpha value for the model is .744 which indicates 74% relia-bility. From the literature review, the above 50% Cronbach's Alpha value model can be considered for analysis. Conclusion: The Cronbach's Alpha Reliability result. The overall Cronbach's Alpha value for the model is .744 which indicates 74% reliability. From the literature review, the above 50% Cronbach's Alpha value model can be considered for analysis.

Keywords: Eucalyptusgrandis, Pinuselliottii, Jute, Dipteryxodorata, Ramie and Sisal.

1. Introduction

Polymethylmethacrylate shell Microencapsulated N- Characterization of heptadecane and thermal properties. Emulsion polymerization approach by microencapsulated segment transfer fabric. (microPCMs) PMMA/heptadecane microcapsules as a novel solid-liquid were synthesized. Chemical and thermal characterization of microPCMs Scanning Electron Microscopy (SEM), Differential Scanning Calorimetry (DSC) and were investigated using thermogravimetry assay (TGA). Diameter of microPCMs is 2000 In thin varieties (0.14–0.40 lm) at rpm was found to exist. Circuit of MicroPCMs Surfaces are clean and compact. MicroPCMs have suitable electric garage capacity DSC results show that [1]. Fourier transform infrared spectroscopy (FTIR) of nanocapsules with KBr sampling method AvatAR-380 FTIR Using a spectrophotometer. 10 to 50 2 h x-ray diffractometer (Philips 1820 with a diffractometer and a 20 function sample converter). A ZEISS SUPRA 55-VP Scanning Electron Microscopy (SEM) and Geol 2010F Transmission Electronmicroscopy (TEM) was used at an accelerating voltage of two hundred kV. Dynamic light scattering nomenclature d, DDiameter (m) DHc Heat of crystallization (kJ/kg) DHf Heat of Fusion (kJ/kg) Correct Thermal Conductivity (W/(m

C) T_m Melting Temperature (C) T_c Crystallization Temperature (C) α Greek letters R the encapsulation ratio (%) E encapsulation efficiency (%) subscripts c nano Capsule medium p particle w wall 1150 G.H. Zhang et al. / Solar Energy 86 (2012) 1149–1154 measurements (DLS) of a Malvern Instruments-Mastersizer 2000 Laser Particle Sizer Application of the analyzer is accomplished. Nano The size distribution and mean diameter of the capsules were determined [2]. Thermal residences of microcapsules including Thermal conductivity, melting points and Latent heat is a laser flash technique (Netzsch LFA 427) and differential scanning measured by calorimetry. Method Heat switch houses However, it isn't always smooth to without delay use these varieties of PCMs in realistic sun thermal programs numerous micro-encapsulated PCMs were developed to conquer these problems via microencapsulating those natural PCMs. Their warmth transfer area expands, for that reason substantially growing their warmth transfer efficiency. Meanwhile, by using incorporating inside the diploma of section transition may be controlled [3]. Characterization of the thermal houses of this traditional polymer and the quantity of exhaust fuel concentrations. Therefore, the principle objective of this paintings is to characterize the effect of diffuse radiation conditions (outside warmth flux) at the quantities launched in the course of this combustion manner. Next, the HRR foundation changed into decided. On the principle of take place in physics and Description of chemical phenomena Recommend in the course of the PMMA thermal decomposition alongside the primary fuel composition evolutions and their emission yields [4]. Characterization Thermal and Hydrodynamic for MPCs Houses are completed in this take a look at, inclusive of properties, warmth switch residences, balance, and programs. Due to the type of substances and strategies and traits of the provider fluids, Any model is all MPCs also cannot close houses [5]. Characterization of thermal homes of substances requires strength of will of Thermal Conductivity and Diffusion In traditional techniques, thermal Conductivity data is received via consistent-nation measurements, and thermal diffusivity is received the usage of unsteady-us of A measurements (Agahane et al. 1987, Preethi Menon and Philip 2000). Heat temperature distribution equation of heat fluxes or temperature gradients Used to determine parameters [6]. Characterization for methylcellulose presents, mainly, 1460, 1380, 1320 and 950 cm^{-1} . 1 These bands All in the methylcellulose B spectrum An absolute gift. For methylcellulose A, Somewhere between 1500 and 1200 cm^{-1} isn't always properly defined, that's feature of a distinctly amorphous shape and viable heterogeneity inside the distribution of substituent agencies in the polymeric chain. Hence, methylcellulose A Spectrum original cellulose and methylcellulose B offers additional differences compared to, and modified with unmodified cellulose May indicate the presence of cellulose (methylated) compound [7]. Characterization of Nano fluids is reviewed. Also, elements affecting thermophysical homes are noted. Finally, Applications and challenges of nanofluids are mentioned. This paper is about nanofluids provides a comprehensive assessment, which nanofluids summarizes and analyzes recent research on and typical performance of nanofluids Gaps for improvement, opportunities and Also highlights the development [8]. Thermal homes Herbal PPC, PPC5-m and three types of PPC/MgAl-LDH TGA curves of nanocomposite samples are illustrated PPC/MgAl-LDH nanocomposites. Easy Mixing PPC5- Thermal decomposition temperature of m sample was 17 than herbal PPC C is less, while 20% weight can be seen. reduction is chosen because the reference factor. Because OMgAlLDH is a prone alkali that could promote PPC polycarbonate degradation [9]. Thermahouses of nanocomposites. Clays that could interact with herbal compounds by means of unique mechanisms are commonly used as components due to the reality they're which can bind natural molecules together Composed of layered silicates. Clay separated consists of stacked aluminosilicate layers, But by electrostatic forces in clay layers Collectively held and easy Cannot be broken into separate layers by cutting [10]. Using TEM and micro-Raman research Characterization of manufactured products is carried out. At low mass The filler is well dispersed, with a tendency to mixture at excessive loads. Viscoelastic and thermal residences had been decided by means of DMA and DSC measurements. Increased modulus of modulus, T_g is slightly better, especially at lower temperatures Converted to temp. up to 5 °C A small increase in melting temperature become acquired, at the same time as the crystallization temperature became not significantly changed [11].Elemental analysis changed into done the usage of A Heraeus CHN-O Rapid Elemental Analyzer Preferably using acetanilide. 1 H and 31P nuclear magnetic resonance (NMR) spectraacquired with the aid of a Bruker AV600 NMR spectrometer at three hundred MHz with tetramethylsilane and phosphoric acid of dimethyl sulfoxide (DMSO)/D2O Use as external requirements respectively Fourier transform infrared (FTIR) spectroscopy had been received the use of A Nicolet 205 scanning FTIR spectrometer Using type 30. Integrated EEWs of PN-EPs in HCl/acetone measured by chemical titration approach [12]. applied in its practical dimensions The thermal properties of the fabric (eg thin Films and films, thin wires, membranes, etc.). transport direction, Integrated circuits, discrete sensors, Unique to micro machines and more This is true for product development. E.G.Fracture can arise because of thermal biking of those microelectronic components within the automobile and aerospace industries. To reduce fracture susceptibility, optimization and fitting of various cloth homes consisting of pressure-stress values, creep, fatigue and bone Breakdown information is thermal Coefficient of Growth (CTE), Young's Moduli [13]. Thermal houses better Rather than synthetic mineral oil, they are solar powered readily as heat transfer fluids in plants can be used, but in their direct applications Heat transfer fluids have high freezing temperatures are controlled by factors. In this paper, 50–80 wt% KNO_3 , 0–25 wt% LiNO_3 and 10–45 wt% $\text{Ca}(\text{NO}_3)_2$ of ternary nitrate salt compounds containing The extension is processed and tested. Within this category Some of the compounds exhibited higher quality Test results show thermal houses consisting of low melting factor (≈ 100 1C), sturdy reliability, high temperature balance

[14]. It is specific in its simultaneous electric at some stage in compressive loading to gain perception Thermal and electrical for the next technological MMT on the relationships between contact resistance . Tim Finally, particularly strong uncertainty evaluation became used to appropriately all measured and calculated quantify uncertainties in quantities [15]. Characterization Low magnification TEM of all composites Photos (!4400) Nanoclay is the only one for the duration of the matrix shows that the sample is not scattered; Actually, some Although tactoids are found, most nanoclays Layers range in size from 1.5 to 5 mm are limited to clusters containing For example, TEM of a GN sample Micrograph demonstrated, in which the arrows suggest the nanofiller's tactoids. However, an in-intensity research, in particular accomplished at filler for all nanocomposites Integrates, swollen into them suggesting a lamellar structure [16]. Delivery or studying measurement strategies to increase new materials. According to Part II of this paper Organized, time domain Thermoreflectance Discusses the basics technique guide to know-how the primary standards and Implementations of this approach Division III standard TDTR About the many versions of approach Discusses, they share similarities with TDTR at the same time taking their own specific have functions. Section IV discusses diverse superior TDTR configurations Abnormal measurement of different types of samples Created to meet the conditions. Finally, Sec Each barrier to future growth provides a summary that also discusses directions[17]. Literature studies of fatty acid esters as PCMs Collection of thermal houses, characteristic and little in the literature on resolution Solar thermal garage in fatty acids explores new substances for solid-liquid transitions [18]. Cellulose crystallinity hurries up Degradation process and studied Thermal stability of lignocelluloses fibres reduces On the other hand, natural fibers Thermal degradation is transferred to ideal temperatures by way of growing cellulose crystallinity and crystal size. Hydrogen bonds Contains lots of natural fibre and Native cellulose, lignin attributed to the properties. If the cellulose chains are close together, between successive chains Contact Extras and the formation of stronger hydrogen bonds, main usually Excellent mechanical and thermal Fibres with flats [19]. The thermal residences of skinny films have brought about the development of numerous non-touch Based on photo thermal phenomena Measurement techniques. These are modulated lasers of heating distribution and time domain techniques Basically frequency-domain methods 1-9 can be grouped roughly supply, generally referred to as time-area thermoreflectance TDTR. 10-thirteen Advantages of the TDTR approach consist of excellent Sensitive and submicron simple convenience for geometry records evaluation [20].

2. Materials and Method

Eucalyptus grandis: Eucalyptus has a protracted history in India. It turned into first planted in 1790 by the ruler of Mysore, Tipu Sultan, in his palace lawn on Nandi Hill near Bangalore. According to one version, he acquired seeds from Australia and brought about sixteen species (Shyam Sunder, 1984). The blue gum tree, as it's far now and again known, is so referred to as because of a sticky gum-like substance that the tree secretes. This gum could be very fragrant and has antibacterial houses, making the tree fairly insect-resistant, in addition to inhibiting the boom of different non-eucalyptus flowers. Eucalyptus grandis is extensively used within the timber industry for trendy creation, joinery, plywood, panelling, boat constructing and floors. It is also used by apiarists for honey manufacturing. It is cultivated as an ornamental, but is illegal on this location because of its excessive length. Eucalyptus oil for nausea, vomiting and diarrhea cause Eucalyptus poisoning stomach pain, dizziness, muscle Weakness, shortness of breath, drowsiness, convulsions and coma cause When used on the skin: pure eucalyptus Using oil is dangerous. It can reason severe issues within the worried gadget.

Pinuselliottii: Pinuselliottii, commonly known as shrink pine, is a conifer native to the southeastern United States. Its habitat is a swamp full of decrease pine trees and shrubs - for this reason the call "slashes". Other not unusual names include swamp pine, yellow scale back pine, and south Florida pine. Pinus is a genus in the family Pinaceae. Any conifer of this species is referred to as a pine. They are ordinarily trees and seldom shrubs. Also, they may be a variety of long-lived vegetation. The genus Pinus can be sub-categorized into yellow pines, white pines and lacebark pines. The natural range of longleaf pine is max Atlantic and Gulf Coastal Plains Jub from southeastern Virginia to Texas and south from to the northern third of peninsular Florida contains Piedmont, Ridge and Valley and Mountain of Alabama and North-west Georgia In the provinces these species grow in addition.

Jute: Jute fiber is a type of plant fiber widely for ability to spin into strong and coarse yarns is known. Individual jute fibers are soft, Long and shiny. Corchorus Plants belonging to the genus are the main ones Believed to be manufacturers fiber. silk-like luster, for this reason the call golden fiber. The primary use of hemp fiber is in fabrics for packaging a huge variety of agricultural and industrial merchandise requiring baggage, sacks, packs and wraps. Where bulky, sturdy fabrics and ropes immune to stretching are required, jute is widely used because of its low price. Jute is one of the most inexpensive textiles inside the global. Artisan styles of hemp may be greater expensive, with most kinds of this fabric costing approximately \$1 per backyard. This fee is similar to cotton, and is extensively much less luxurious than many types of artificial fabric.

Dipteryx odorata: Dipteryx odorata (commonly known as "kumaru", "kumaru" or "Brazilian teak") is a flowering tree in the pea circle of relatives Fabaceae. The tree is local to Central America and northern South America [1] and is semi-deciduous.[2] Its seeds are known as tonka beans (now and again tonkin beans or tonquin beans). They are black and

wrinkled and have a soft, brown interior. They have a strong candy woody aroma due to their excessive coumarin content material.

Ramie; Rami is a natural fabric from the ancient East, and is a super sustainable alternative to silk. Discover its packages! Also called China Grass or Ramia, ramie is a material derived from natural fibers consisting of linen or bamboo. Find out its features and the way to properly keep it. Ramie is fantastically absorbent and feels dry for a long term. It has 20% absorbency, whereas linen has 30% and cotton has handiest 8%. On hot, humid days, clothes made of ramie are at ease for maximum of the time. On top of that, ramie dries quick, making it a incredible preference for cool, summery clothes. for stain elimination and bleaching can be effectively used on ramie. It is nice to wash ramie clothes whilst they're slightly damp. Ramie cloth is a herbal cloth woven from the bast fiber of the ramie plant. We additionally realize the material as china linen, grass linen or grass material. The fiber is similar to flax, jute or jute in its fine texture³. The cloth is breathable and non-itchy like pure wool and has a herbal white look.

Sisal: Sisal fiber is obtained from agave, Agave sisal and Due to its strength, durability, stretchability, affinity with positive dyestuffs, and coir, its miles immune to degradation in salt water. High fine fiber is transformed into yarn for carpet enterprise. Sisal has a huge sort of makes use of: conventional – rope, Sisal is exceptionally absorbent and holds drinks. If a wet sisal rug is not absolutely dry, it may increase mold and mould, so it's miles essential to apply as little water as possible whilst cleaning. If your sisal rug gets wet, allow it to dry absolutely earlier than putting it returned at the rug pad.

Buriti: The Amazon rainforest is home to countless plant species with particularly high medicinal and nutritional cost. Among them is buriti, the fruit of the morich palm observed at some point of the Peruvian Amazon wherein we work. Rich in Vitamin A and C, Purity contains five instances extra beta-carotene than carrots. Beyond moisturizing and protection, Purity oil has diverse makes use of for hair and skin care, inclusive of: Anti-inflammatory properties deal with rashes, infection, redness and touchy pores and skin. Photo-protecting properties save you solar damage from UV rays. Enhancing skin's younger appearance, the natural anti-growing old Purity Oil has a light, fragrance that isn't overpowering. This is a outstanding desire for those who don't just like the odor of critical oils. The aroma could be very earthy, woody and fragrant - no longer fruity or count at all.

Method: SPSS Statistics is a statistical control Advanced Analytics, Multivariate Analytics, Business enterprise Intelligence and IBM a statistic created by a software program is a package crook research. A set of generated statistics is Crook Research is for a long time SPSS Inc. Produced by, this Acquired by IBM in 2009. Current versions (After 2015) have the icon name: IBM SPSS Statistics. The name of the software is initially social Became the Statistical Package for Science (SPSS) [3]Reflects the real market, then statistics SPSS is transformed into product and service solutions Widely used for statistical analysis in the social sciences is a program used. Market researchers, Health researchers, research institutes, government, education Researchers, advertising agencies, statistical mining Workers and others. The original SPSS manual (Nie, Bent & Described together, it is their ordinary inspectors Allows you to perform your own statistical analyses. [9] In addition to statistical evaluation, fact management Case examination, report reformulation, restored processing facts) and facts Documentation (a metadata dictionary in the data file stored) Basic software is the functions of the program. SPSS Many functions of Statistics are pull-down menus Easy to use with or proprietary 4GL command Syntax can be programmed with language SPSS Statistics imposes regulations on the inner record structure, information types, information processing, and compatibility documents, which collectively simplify programming. SPSS datasets have a two-dimensional tabular structure in which rows normally constitute instances (together with individuals or families) and columns constitute measures (together with age, sex, or family earnings). Only records kinds are described: wide variety and textual content (or "string"). All statistics processing happens sequentially via the report (dataset). Files can be matched one-to-one and one-to-many, however not many-to-many. In addition to that instances-by means of-variables shape and processing, there may be a separate matrix session where you can still process information into matrices using matrix and linear algebra operations.

3. Result and Discussion

TABLE 1. Descriptive Statistics

	N	Range	Minimum	Maximum	Mean	Std. Deviation
Eucalyptusgrandis	30	4	1	5	.202	1.106
Pinuselliottii	30	4	1	5	.230	1.259
Jute	30	4	1	5	.233	1.278
Dipteryxodorata	30	4	1	5	.209	1.143
Ramie	30	4	1	5	.276	1.512
Sisal	30	4	1	5	.248	1.357
Buriti	30	4	1	5	.247	1.351
Valid N (list wise)	30					

Table 1 shows the descriptive statistics values for analysis N, range, minimum, maximum, mean, standard deviation Eucalyptusgrandis, Pinuselliottii, Jute, Dipteryxodorata, Ramie, Sisal and Buritithis also using.

TABLE 2. Frequencies Statistics

		Eucalyptusgrandis	Pinuselliottii	Jute	Dipteryxodorata	Ramie	Sisal	Buriti
N	Valid	30	30	30	30	30	30	30
	Missing	0	0	0	0	0	0	0
Mean		3.13	3.00	3.23	3.27	3.30	3.43	2.97
Std. Error of Mean		.202	.230	.233	.209	.276	.248	.247
Median		3.00	3.00	3.00	3.00	3.00	3.00	3.00
Mode		3	3	3	3	5	5	3
Std. Deviation		1.106	1.259	1.278	1.143	1.512	1.357	1.351
Variance		1.223	1.586	1.633	1.306	2.286	1.840	1.826
Skewness		-.444	.333	-.045	-.269	-.101	-.071	-.025
Std. Error of Skewness		.427	.427	.427	.427	.427	.427	.427
Kurtosis		.204	-.741	-.860	-.071	-1.517	-1.306	-.992
Std. Error of Kurtosis		.833	.833	.833	.833	.833	.833	.833
Range		4	4	4	4	4	4	4
Minimum		1	1	1	1	1	1	1
Maximum		5	5	5	5	5	5	5
Sum		94	90	97	98	99	103	89
Percentiles	25	3.00	2.00	2.00	3.00	2.00	2.00	2.00
	50	3.00	3.00	3.00	3.00	3.00	3.00	3.00
	75	4.00	4.00	4.25	4.00	5.00	5.00	4.00

Table 2 Show the Frequency Statistics in Digital technology in teaching and learning Eucalyptusgrandis, Pinuselliottii, Jute, Dipteryxodorata, Ramie, Sisal and Buriticurve values are given

TABLE 3. Reliability Statistics

Cronbach's Alpha Based on Standardized Items	N of Items
.744	7

Table 3 shows the Cronbach's Alpha Reliability result. The overall Cronbach's Alpha value for the model is .744 which indicates 74% reliability. From the literature review, the above 50% Cronbach's Alpha value model can be considered for analysis.

TABLE 4. Reliability Statistic individual

	Cronbach's Alpha if Item Deleted
Eucalyptus Grandis	.710
Pinuselliottii	.758
Jute	.704
Dipteryxodorata	.721
Ramie	.695
Sisal	.712
Buriti	.685

Table 4 Shows the Reliability Statistic individual parameter Cronbach's Alpha Reliability results. The Cronbach's Alpha value for Eucalyptusgrandis- .710, Pinuselliottii - .758, Jute- .704, Dipteryxodorata- .721, Ramie - .695, Sisal- .712, Buriti- .685 this indicates all the parameter can be considered for analysis.

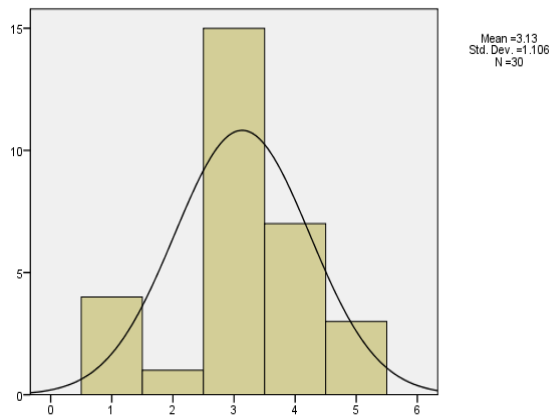


FIGURE 1. Eucalyptusgrandis

Figure 1 shows the histogram plot for Eucalyptusgrandis from the figure it is clearly seen that the data are slightly Left skewed due to more respondent chosen 3 for Eucalyptusgrandis except the 2 value all other values are under the normal curve shows model is significantly following normal distribution.

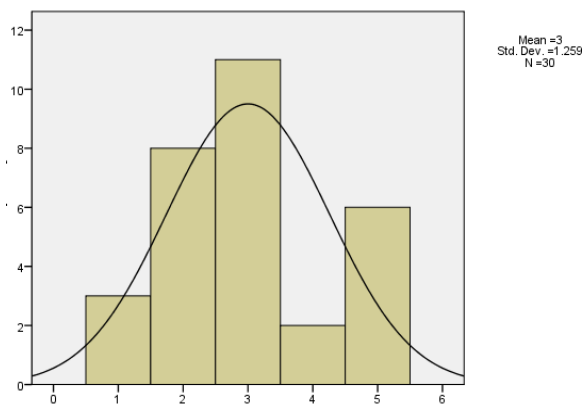


FIGURE 2. Pinuselliottii

Figure 2 shows the histogram plot for Pinuselliottii from the figure it is clearly seen that the data are slightly Left skewed due to more respondent chosen 3 for Pinuselliottii except the 2 value all other values are under the normal curve shows model is significantly following normal distribution.

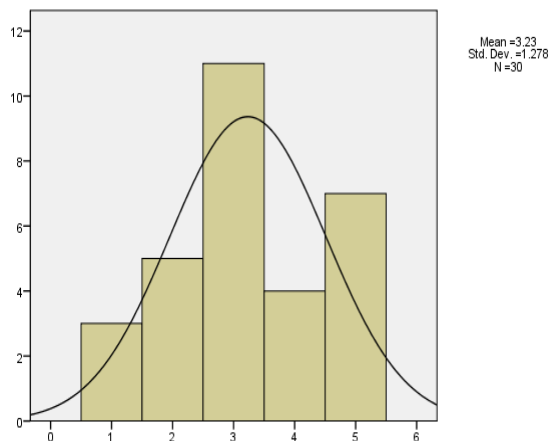


FIGURE 3. Jute

Figure 3 shows the histogram plot for Jute from the figure it is clearly seen that the data are slightly Left skewed due to more respondent chosen 3 for Jute except the 3 value all other values are under the normal curve shows model is significantly following normal distribution.

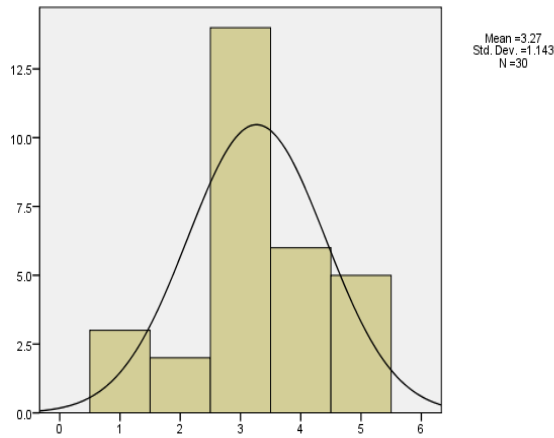


FIGURE 4. Dipteryxodorata

Figure 4 shows the histogram plot for Dipteryxodorata from the figure it is clearly seen that the data are slightly Left skewed due to more respondent chosen 3 for Dipteryxodorata except the 2 value all other values are under the normal curve shows model is significantly following normal distribution.

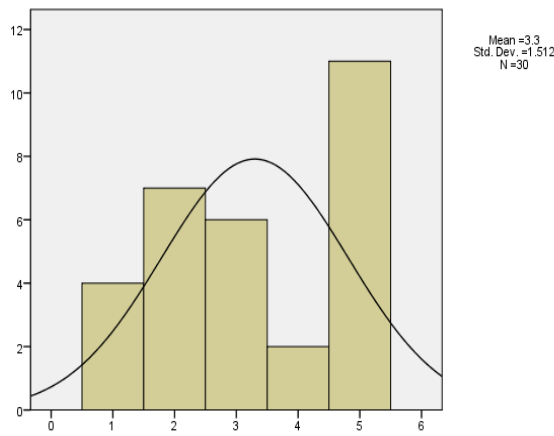


FIGURE 5. Ramie

Figure 5 shows the histogram plot for Ramie from the figure it is clearly seen that the data are slightly Right skewed due to more respondent chosen 5 for Ramie except the 2 value all other values are under the normal curve shows model is significantly following normal distribution.

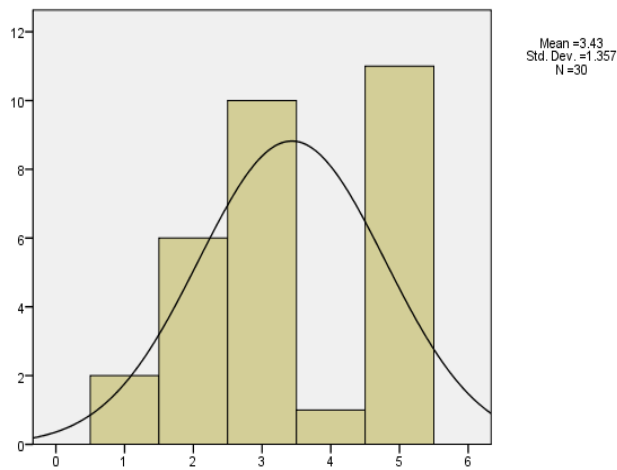


FIGURE 6. Sisal

Figure 6 shows the histogram plot for Sisal from the figure it is clearly seen that the data are slightly left skewed due to more respondent chosen 5Sisalexcept the 2 value all other values are under the normal curve shows model is significantly following normal distribution.

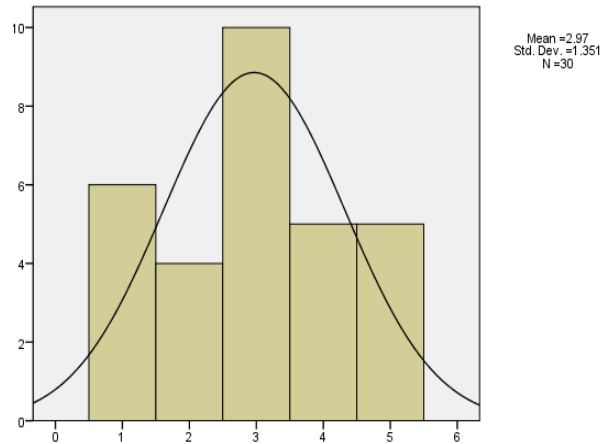


FIGURE 7. Buriti

Figure 7 shows the histogram plot for Buriti from the figure it is clearly seen that the data are slightly Right skewed due to more respondent chosen 3 for Buriti except the 2 value all other values are under the normal curve shows model is significantly following normal distribution.

TABLE 5. Correlations

	Eucalyptusgrandis	Pinuselliottii	Jute	Dipteryxodorata	Ramie	Sisal	Buriti
Eucalyptusgrandis	1	.149	.368*	.407*	.264	.305	.372*
Pinuselliottii	.149	1	.214	.096	.290	.020	.203
Jute	.368*	.214	1	.499**	.319	.198	.344
Dipteryxodorata	.407*	.096	.499**	1	.172	.212	.296
Ramie	.264	.290	.319	.172	1	.506**	.427*
Sisal	.305	.020	.198	.212	.506**	1	.497**
Buriti	.372*	.203	.344	.296	.427*	.497**	1
*. Correlation is significant at the 0.05 level (2-tailed).							
**. Correlation is significant at the 0.01 level (2-tailed).							

Table 5 shows the correlation between motivation parameters for Eucalyptusgrandis. For Dipteryxodorata is having highest correlation with Pinuselliottii and having lowest correlation. Next the correlation between motivation parameters for Pinuselliottii. For Ramie is having highest correlation with Sisal and having lowest correlation. Next the correlation between motivation parameters for Jute. For Dipteryxodorata is having highest correlation with Sisal and having lowest correlation. Next the correlation between motivation parameters for Dipteryxodorata. For Jute is having highest correlation with Ramie and having lowest correlation. Next the correlation between motivation parameters for Ramie. For Sisal is having highest correlation with Dipteryxodorata and having lowest correlation. Next the correlation between motivation parameters for Sisal. For Ramie is having highest correlation with Pinuselliottii and having lowest correlation. Next the correlation between motivation parameters for Buriti. For Sisal is having highest correlation with Pinuselliottii and having lowest correlation.

4. Conclusion

Thermal conductivity is the assets of a fabric that conducts warmth. Lower than materials with higher thermal conductivity Materials with thermal conductivity are low throughout Heat transfer occurs at cost. This characteristic the temperature is established and its reciprocal heat resistance The 3 primary thermal houses Foods have accurate heating, thermal conductivity and Heat diffusion. Specific heat is using 1°C The temperature of a kg substance The amount of heat required to raise Three simple warmth Treatments used in food safety include: Pasteurization, in which food is about sixty-two de-grees Half an hour or seventy-two in Celsius 15 to 17 seconds at °C treatment is provided; Hot filling,

including liquid Keep-ing foods and juices in containers a re boiled earlier than; And Steam treatment under pressure carried out inside the pro-cessing To characterize the investigated fibers three methods are used suitable for evaluating the differences inside the sys-tems of the fiber additives. FTIR spectroscopy evaluation revealed High in Mezilaurusi-tauba and puriti fibre Extraction contents at 2920 and 2850 cm⁻¹ May be associated with the best bands in, this Be careful when using pads and other pads means to be Eucalyptus has a protracted history in India. It turned into first planted in 1790 by the ruler of Mysore, Tipu Sultan, in his palace lawn on Nandi Hill near Bangalore. According to one version, he acquired seeds from Australia and brought about sixteen species (Shyam Sunder, 1984). The blue gum tree, as it's far now and again known, is so referred to as because of a sticky gum-like substance that the tree secretes. Pinuselliottii, commonly known as shrink pine, is a conifer na-tive to the southeastern United States. Its habitat is a swamp full of decrease pine trees and shrubs - for this reason the call "slashes". Jute fiber is a type of plant fiber widely For ability to spin into strong and coarse yarns is known. Individual jute fibers are soft, Long and shiny. Corchorus Plants belonging to the genus are the main ones Believed to be manufacturers fiber. silk-like luster, for this reason the call golden fiber. Rami is a natural fabric from the ancient East, and is a super sus-tainable alternative to silk. Discover its packages! Also called China Grass or Ramia, ramie is a material derived from natu-ral fibers consisting of linen or bamboo. Find out its features and the way to properly keep it. Sisal fiber is obtained from agave, Agave sisal and Due to its strength, durability, stretchability, affinity with positive dyestuffs, and coir, its miles im-mune to degradation in salt water. The Amazon rainforest is home to countless plant species with particularly high medici-nal and nutritional cost. Among them is buriti, the fruit of the morich palm observed at some point of the Peruvian Amazon wherein we work. Rich in Vitamin A and C, Purity contains five instances extra beta-carotene than carrots SPSS statistics is a multivariate analytics, business intelligence, and criminal investigation data management, advanced analytics, developed by IBM for a statistical software package. A long time, spa inc. Was created by, IBM purchased it in 2009. The brand name for the most recent versions is IBM SPSS statistics. Eucalyptusgrandis, Pinuselliottii, Jute, Dipteryxodorata, Ramie, Sisal and Buriti. The Cronbach's Alpha Reliability result. The overall Cronbach's Alpha value for the model is .744 which indicates 74% reliability. From the literature review, the above 50% Cronbach's Alpha value model can be considered for analysis.

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