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learn more about waxes and wax emulsions understand how you can improve specific surface effect using wax emulsions find out key factors to be considered to formulate wax emulsions their mechanism of action and their benefits to improve surface defects what are the main application areas wax emulsions are now well established and extensively used in aqueous formulations such as coatings inks and opvs textile and leather treatments polishes paper and cardboard coatings etc these ready to use emulsions can be easily incorporated by simple mixing wax emulsions are stable mixtures of one or more waxes in water waxes and water are normally immiscible but can be brought together stably by the use of surfactants and a clever preparation process waxes are environmentally friendly and functionally versatile and they can be employed in various industries on virtually any surface waxes impact and enhance several properties of a surface some of which include slip control anti blocking water repellency and abrasion resistance wax emulsions are a stable mixture of one or more natural or synthetic waxes in water emulsions always contain a wetting agent package adjusted to the appropriate hlb value depending on the wax being emulsified processing is performed at temperatures above the melt point of the wax if the wax melt get help with product recommendations formulation questions application issues and more from a lubrizol expert on wax emulsions technologies emulsified wax additives are typically used to protect clear coated surfaces from damage due to abrasive forces or damage due to moisture exposure the wax properties that have the greatest impact on formulation performance impact

and physical behavior of emulsions which provides a direction for the design and control of emulsion performance the rheological study showed that all wax had solid like properties and wax based oleogels with denser crystal networks correspond to emulsion gels with higher modules the dense crystal network and interfacial crystallization could improve the stability of w/o emulsion gels proved by recovery rates and critical strain there are seven major end uses of wax emulsions floor care products furniture and multisurface polishes autocare products paper coatings fruit coatings ropes and textiles cosmetics although most experience has been gained in the first three types of product all are included for comparison 3.1 oilfield waxes and emulsions are petroleum byproducts that increase the costs of production transportation and refining by causing equipment failures plugged pipelines and decreased throughput

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the wax properties that have the greatest impact on formulation performance include the chemical composition the molecular weight the melting point the hardness and in the case of emulsions and dispersions the particle size

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even if used in relatively small quantities typically below 3 solids content of the total composition waxes impart or improve effects as various as slip and lubrication abrasion resistance anti blocking matting and water repellency all critical properties in the coating and ink areas

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wax emulsions are liquids and are incorporated in water based formulations to improve the surface properties the wax emulsions are now well established due to their vast technical applications

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wax emulsions are stable mixtures of one or more waxes in an aqueous phase liquid usually water in this report we look at the preparation of paraffin wax emulsions paraffin wax emulsions commonly consist of micronized waxes water and an emulsifying agent

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learn everything regarding water based wax emulsions their usage and the different types of waxes like f e pe pp carnauba

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the article also explores synthetic waxes like polyethylene wax microcrystalline wax and fischer tropesch wax and their pros and cons compared to natural waxes

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wax emulsions help create water based formulations including inks paints polishes and more tires a layer of wax acts as a barrier on tires protecting against road wear and tear crayons combined with color pigments wax is molded to create colorful bright crayons paper cup and package coatings

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emulsions can be thought of as containers for chemically dissimilar materials occupying space inside a continuous phase of opposite polarity these containers are semipermeable and allow interchanges of similar

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exploration of the natural waxes tuned crystallization

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our findings give a clear insight into the effects of adding natural waxes into oil phase on the crystalline and physical behavior of emulsions which provides a direction for the design and control of emulsion performance

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the rheological study showed that all wax had solid like properties and wax based oleogels with denser crystal networks correspond to emulsion gels with higher modules the dense crystal network and interfacial crystallization could improve the stability of w o emulsion gels proved by recovery rates and critical strain

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