

CARE OF COOLING SYSTEM OF AUTO

HOW TO TEST RESISTANCE

Capacity for Water and Anti-Freeze Mixtures Described and Suggestions Given for Operation

The ordinary cooling system holds about three-and one-quarter gallons of water. "If one gallon of denatured alcohol is added to two and one-quarter gallons of water, to fill the radiator, the driver will have about a 30 per cent solution, which will not freeze until the mercury gets down to 10 above zero," says a bulletin issued by the mechanical first aid department of the Chicago Motor club.

"This is satisfactory for most conditions, even if the thermometer may be hanging around the zero mark, because it takes some time for a car to cool down to the temperature of the air. One and one-third gallons, however, a 40 per cent solution, will give immunity down to 2 degrees below zero, and if the car is left in an unheated garage over-night this is safer. Of course, if a real old-fashioned cold snap comes on, the safest thing to do is to see that the radiator contains a 50-50 solution of alcohol and water.

Only Denatured Alcohol

"In buying alcohol for the radiator, only denatured should be accepted, as it is harmless to the radiator, hose connections, or engine, whereas wood alcohol usually contains free acetic acid which is harmful to these parts, and while it is a slightly better anti-freeze than denatured alcohol, it is not enough to warrant its higher cost.

"The trouble with alcohol is that it boils at a somewhat lower temperature than water, and although this is not a drawback from the standpoint of heating, it means that it will evaporate fast and one can never be sure he has enough alcohol in his radiator unless he makes a hydrometer test.

Hydrometer Uses

"Regular hydrometers for testing the specific gravity of anti-freeze solutions are on the market. In the ordinary hydrometer a sample is taken in the usual manner, but unlike the battery test the desirable thing is to have as low a reading as possible. It is also important that the reading be taken where the temperature is not below 55 degrees Fahrenheit. If the reading is 1,000, then you have pure water, which will freeze at 32 degrees above zero. The presence of alcohol will lower the specific gravity, and also will lower the temperature at which it will freeze.

"With a hydrometer reading from 1,000 down to 0.9450 or lower, the specific gravity of the water can be found. If, for example, it is found to be 0.9633, then the radiator contains 35 per cent of alcohol, and will not freeze at temperatures above 5 degrees above zero. When the temperature is 10 degrees below zero the radiator will require about 46 per cent of alcohol, which will show 0.9498 specific gravity on the hydrometer.

"If the car has a cooling system the capacity of which is two and one-half gallons, of which one gallon is 40 per cent, the addition of one-gallon of denatured alcohol to such a cooling system should produce a hydrometer reading of 0.9570 which will serve as a protection against freezing down to a temperature of 2 degrees below zero."

AUSTRIAN MOVIE STARS NOT PAID BIG WAGES

Marked Difference Between Salaries and the Pay of Those In U. S.

Motion picture stars in Austria are paid by the day, the best of them getting around \$85, and the lesser lights drawing down from \$28 to \$45. When the studio whistle blows and the big and little stars call it a day, the grind has netted each of them from 600 to 200 schillings. If they are lucky enough to own a dress suit, they rate another 10 schillings—about \$3.50 in the coin of this realm. There's a tip for waiters.

These incomes, dredged up by our ever diligent department of commerce are well calculated to whet domestic fear of competition from from "pauper foreign labor." Can America's plutocratic sheiks and shebas hold their place in the Kleigs against the cheaper wiles of these schilling shockers? If we know our movies, the Vienna salaries would signify only cigarette money when weighed with a Doug Fairbanks' scale.

That there is a marked difference between the real money and the real money earned by some screen celebrities may be contended with fact. Yet it is a fair question whether truth would serve us better than the pleasant myths people who work and play in a world of make-believe. What matter that the platinum dog chain of a famous leading woman shrinks to a leather leash, or that her fleet of Rolls dwindles to an occasional use of a director's car? Along with the touting, the ballyhooing, the puffing, the boosting, the booming, and the flogging of long-suffering superlatives, a good deal of hard work is done in the studios. Life in the movies is not all beer and schillings, even in Vienna.

—Nation's Business

FAVORABLE SIGNS IN BUSINESS SEEN

SURVEY VERY PROMISING

National Association of Manufacturers Gets Reports Indicating Business for Winter

During the past two or three weeks there has been a liquidation in the stock market. Prices in important stocks have gone down and some people have adopted the pessimistic attitude regarding the future of business in the United States. Just how much of this liquidation has been due to the professional traders and how much to a recession of activity in the steel industry cannot of course be accurately estimated. It can be safely said, however that we are not on the verge of any industrial depression and that it is still important to keep in mind the fact that it never pays to sell Uncle Sam short.

Annual Survey

The annual survey of the nation's trade by the National Association of Manufacturers indicates that industries as a whole are only a shade less flourishing than in the peak of 1926 and that the indications are for better business now rather than poorer trade. Of the replies received in the survey more than 91 per cent reported favorable business, 11 per cent declaring business to be excellent, 36 per cent good and 43 per cent fair. So far as prospects for the winter are concerned 92 per cent reported as favorable. The condition of the labor situation is indicated by the fact that 99 and 7-10 of the replies received in the survey indicated that there were no labor troubles of any kind.

No set of men are in closer touch with business conditions than the national advertisers. In opening the annual session of the National Association of Advertisers in New York recently, S. E. Conybeare, president of the association declared that it is the consensus of opinion among business men nearly everywhere that 1928 is going to be a prosperous year. Thirty per cent of the members of the association, he said, plan to increase the amount of their advertising next year.

Most Signs Good

Taken all in all, it would seem that most signs point to a good winter's business in the United States this year. The holiday season is approaching and it ought to be a good one. The up-to-date merchant will prepare of course by having the right kind of line, and one which can be sold at the right price. Then to assure him that he will get his share of general trade, he will advertise consistently and effectively in his local newspapers.

CRIMINALS FIND THIS STATE POOR REFUGE

Criminals from other states are finding Illinois a poor refuge when flight is sought in an effort to evade responsibility for misdeeds. To date during the year 1927 a total of 193 persons wanted for crimes in other states have been turned over under requisitions presented to Governor Small. Twenty eight states are represented.

During the same period 216 requisitions have been issued by Governor Small for persons alleged to have fled from Illinois after committing crimes and who have been located in other states. Of the number sought to be returned from other states 83 were wanted in Cook county.

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DISCOVER METHOD TO DEFINE ODORS, REPORT

Chemists Classify All Types Under Four Distinct Headings

It was all right to say "I've got your number" until the chemists got around to making digital specifications of odors. A system developed in the laboratories of Arthur D. Little of Cambridge, Mass., recognizes four decisive qualities in its numerical definition of odors. These odor types, according to the Nation Business, include the fragrant type, with the sweetness of flowers; the acid type with the sourness of vinegar and camphor; the burnt type, with a tarry smell; and the caprylic type, which has a goaty or almost putrid smell.

By comparison with carefully chosen standards, the relative intensity on a scale of nine of each of the four component odor-types present may be closely approximated, and the entire odor expressed as a four-digit numeral. For illustration, the chemists cite the odor of vanilla, the active principle in vanilla extract, which they have determined as 6021—meaning that it is as fragrant as standard 6 of the fragrant series, as nearly free from acid as standard zero of the acid series, and burnt and caprylic as standards 2 and 1 of the burnt and caprylic series.

On the word of the chemists, no odor has yet been found which can not be adequately defined in this way. And why not scale the constituents of human nature, too? An age that bases its intelligence ratings of plain, fancy and assorted questions could easily fashion a new faith from this odor scale. Telephone numbers, house numbers, and automobile license tags would supply the revealing figures. Attainment of the unalloyed sweetness of nature is indicated by "9000" would be rare, of course. As in other personalities, the danger here is that comparisons might become unpleasantly odorous.

There are over sixty million miles of telephone wire in the United States.

DECORATION OF BOOK STANDS FOR HOME USE

Varied Treatment Depending on Style of Case; Shades are Numerous

Book stands are always an important part of the furniture of the modern home and perhaps there are no pieces of furniture to which more attention is given by those interested in interior decoration. Even the simplest of bookcases can now be made attractive and be given a coloring which helps to make the room distinctive.

There are three types of book cases, and one, or all, of which are usually found in the average home. One is a large book case with glass doors; another is a small book case of general utility, usually of three shelves, which can be placed here and there in positions which help to decorate the room; the other is a book stand, also usually with three shelves, which is a fine auxiliary to a reading chair.

There are two color plans suggested for the large book case with glass doors. One of these is done in blue with a rich green on the shelves. The other is finished in warm tones of orange yellow with deep red interior and shelves. This decorative scheme in these two colors is at once harmonious, soothing and rich.

The small book case which is of such general utility is done in vermilion with black medallion decoration at top, trimmed with old gold. The interior and the shelves are done in silver. Such a vermilion decoration at once removes this piece from the commonplace and makes it a worthwhile addition to the room in which it is placed.

The book stand with three shelves is done in rich tones of dark and light green, trimmed with black.

PERAMBULATOR CHAUFFEURS

No one would think of acquiring an automobile and running it without some study and understanding of it, but thousands of people acquire children and do not think it necessary to study or understand them.

TALKS FOR CHILDREN AT ART INSTITUTE

Saturday and Sunday Features For Youngsters Grows In Interest

In the Children's Museum at the Art Institute the children's talks at 9:20 on Saturdays and 3:00 on Sundays are continuing until Christmas with subjects as follows: November 26 and 27 "The Decoration of a Gothic Cathedral"; December 3 and 4, "Wood and Stone Carvers of Long Ago"; December 10 and 11, "Ancient Palaces of France and Italy"; December 17 and 18, "The Christmas Story in Art." A special entertainment for the children is being planned for Saturday afternoon, Nov. 19 at 2:30 p. m. Mrs. Louise S. Hubbard will present her charming and romantic Chinese Shadow Puppet show, called "Love in a Temple." Tickets (just for children) will be distributed free as long as they last, in the Children's Museum. This will be a most interesting performance, beautiful as well as amusing and entertaining.

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