REFRACTOMETER APPLICATIONS

PHARMACEUTICAL INDUSTRY

Typical applications:

- Characterisation tests in research and development
- Identity test, purity control and concentration determination of raw materials, semi-finished products and end products

CHEMICAL INDUSTRY

Typical applications:

- Characterisation tests in research and development
- Identity test, purity control and concentration determination of raw materials, semi-finished products and end products
- Tracking of chemical processes during production

Analysed substances: Pharmaceuticals, infusion solutions, dialysis preparations, blood sera etc.

Special requirements: Precision. compliance with standards

Standards. Pharmacopoeia (USP, BP, JP, Ph. Eur.), GLP, FDA, NIST

AOAC,

OIML,

ASTM,

AOAC,

OIML,

ASTM.

DIN.

CID

DIN,

CID

Recommended devices: DR7200-P DR7400-P

Analysed substances:

Organic solvents, aliphatic or aromatic hydrocarbons, alcohols, salt solutions, acids, bases, stains, industrial oils, paints and varnishes, resins, glue components, tensides, extinguishing agents, polymer products, silicones, raw plastic materials etc.

Exact temperature control within a wide temperature range, wide measurement range, variety of scales, variability of measurement methods, option of interval measurements

Special requirements:

Standards:

Recommended devices: DR7200-P DR7400-P DR201-95 DR301-95 PR SERIES

PETROCHEMICAL, AUTOMOTIVE AND AVIATION INDUSTRY, METAL PROCESSING AND BUILDING TECHNOLOGY

Typical applications:

- Identity test and concentration determination
- Outgoing goods inspection
- Stability test

Analysed substances:

Lubricating oils, fuels, gear oils, wax, lubricants, cooling lubricants, de-icing agents and anti-freeze agents, battery acid, AdBlue, tensides, cleaners, windshield wiper concentrate etc

Special requirements: Easy handling, availability of the Brix scale, temperature compensation option

Standards:

Recommended devices: DR7100-P DR7300-P DR301-95 HR SERIES PR SERIES

FOOD INDUSTRY

Typical applications:

- Quality and purity control of raw materials and end products
- Determination of the sugar concentration

Analysed substances:

Sugar, jams, honey, syrup, seasoning sauces, mustard and mayonnaise, convenience products, dairy products, baby food, egg products, oils, starch hydrolysis products etc.

Special requirements:

handling, easy cleaning,

routine analysis with high

sample throughput

Fast measurement and easy

Standards: AOAC, OIML, ASTM, GLP, **ICUMSA**

Recommended devices: DR7100-P DR7300-P AR4 AR2008 HR SERIES PR SERIES

SUGAR INDUSTRY

Typical applications:

- Determination of the sugar concentration in semi-finished products and end products
- Determination of the solids content in solutions
- Determination of the purity in combination with a polarimeter

Analysed substances: Sugar cane, beet pulp, molasses, refined sugar, syrup, invert sugar etc.

Special requirements: Availability of the international sugar scale, maintenance-free

Standards: ICUMSA, GIP

Recommended devices: DR7100-P PR SERIES

MANUFACTURERS OF AROMAS, FRAGRANCES AND ESSENTIAL OILS

Typical applications:

- Quality control of raw materials and auxiliary materials
- Monitoring of the production of semi-finished products and end products

Analysed substances:

Essential oils (such as orange, lemon, lavender and peppermint oil), glyceric acid, Aromas and perfumes for the food, cosmetic and tobacco industry etc.

Special requirements:

Low sample volumes with a high aggressiveness, high accuracy

Standards:

Pharmacopoeia (USP, BP, JP, Ph. Eur.), AOAC, OIML, GLP

Recommended devices: DR7200-P DR7400-P DR6100-TF DR6300-TF

BEVERAGE INDUSTRY

Typical applications:

- Routine analysis with high sample throughput
- Quality and purity control of raw materials and end products
- Determination of the sugar concentration in juices and alcohol-free beverages
- Determination of the alcohol or extract content in beer, spices, wine or spirits
- Quality control of dairy products
- Sewage water check

HOSPITALS AND PHARMACIES

Typical applications:

- Incoming and outgoing goods inspection
 Checking medicines for
- pharmacopeias
- Analysis of body secretions

TESTING LABORATORIES, INSTITUTES, TEACHING FACILITIES

Typical applications:

- Testing of foodstuff and pharmaceutical products
- Testing of the compliance with national and international standards
- Training

Analysed substances: Food and beverage samples, samples from research and development, acids, bases, solvents

Analysed substances:

Fruit and vegetable juices,

sugar concentrates, dairy

products, aromas and

Analysed substances:

tions, urine etc.

Medicines, infusion solutions,

blood sera, dialysis prepara-

colouring etc.

dietary beverages, beer, spices,

wine, spirits, distillates, liquors,

Special requirements: High variability of the measurement techniques, simple convenient data management

Special requirements:

of the Brix scale,

option

Easy handling, availability

temperature compensation

Special requirements:

handling, easy cleaning.

Fast measurement and easy

Standards:RPharmacopoeiaA(USP, BP, JP, Ph.AEur.), AOAC,EOIML, ASTM,DISO, DIN, GLP

Standards:

AOAC,

OIML.

ICUMSA,

IAMFES,

Standards:

(USP, BP,

GLP

JP, Ph. Eur.),

Pharmacopoeia

GLP

Recommended devices: AR4 AR2008 DR7200-P DR7400-P

Recommended devices:

AR4 DR301-95

DR7200-P

DR7400-P



Recommended devices: DR7300-P DR6200-TF PR SERIES